

DIABETES

LITERATURE INDEX

NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM, AND DIGESTIVE DISEASES

U.S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE

Public Health Service

National Institutes of Health

FEBRUARY 1977
VOLUME 12, NO. 2

DIABETES LITERATURE INDEX

(By Authors, Hierarchy, and by Keywords in the Title)

A monthly publication of the
National Institute of Arthritis, Metabolism, and Digestive Diseases

Editor

Joseph Izzo, M.D. Rochester, New York

Associate Editor

Orion D. Hegre, Ph.D. Minneapolis, Minnesota

Editorial Advisors

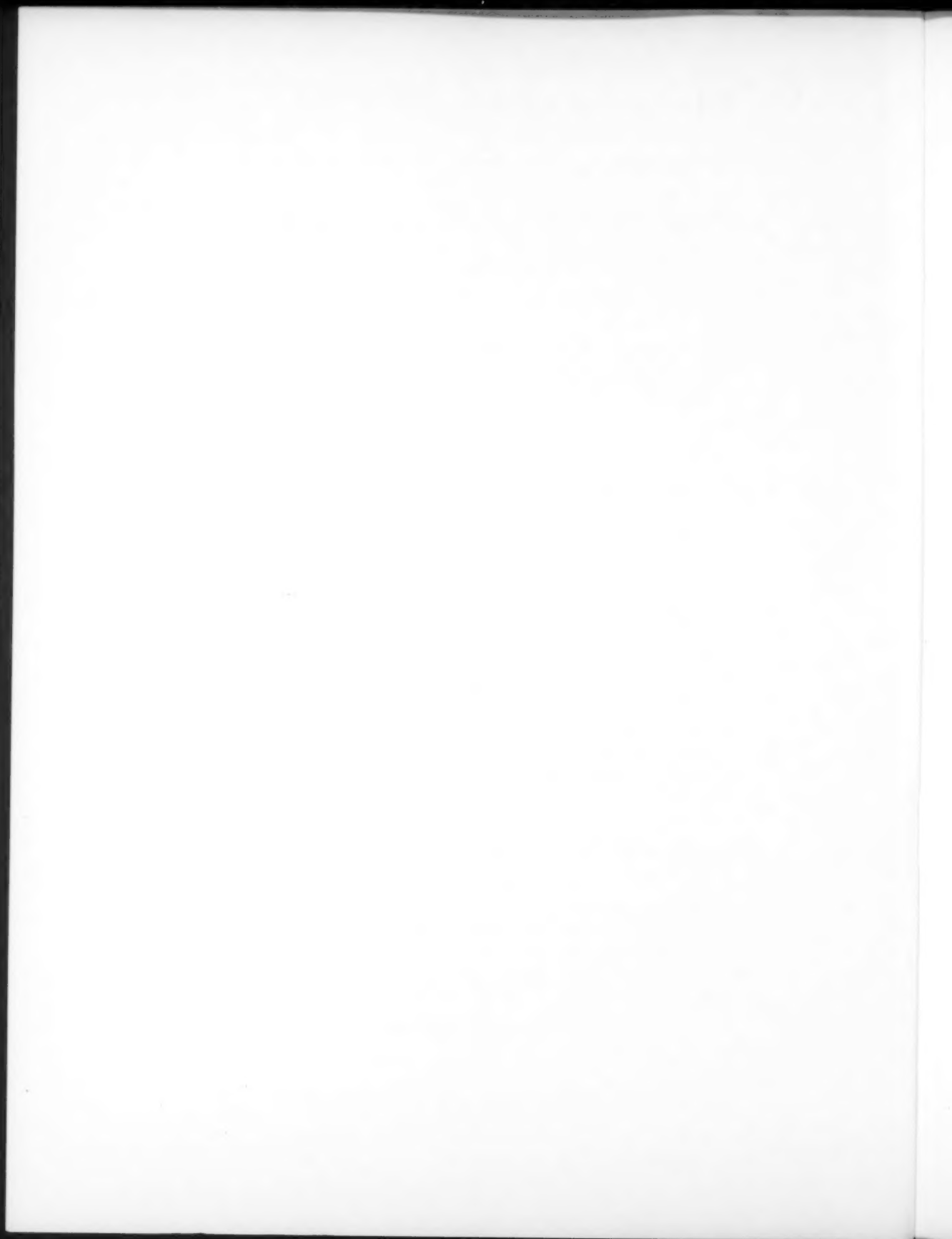
<i>James Ashmore, Ph.D.</i>	<i>Indianapolis, Indiana</i>
<i>Jonathan S. Bishop, M.D.</i>	<i>Minneapolis, Minnesota</i>
<i>Jerome W. Conn, M.D.</i>	<i>Ann Arbor, Michigan</i>
<i>Sherwin J. Cooperstein, Ph.D.</i>	<i>Hartford, Connecticut</i>
<i>Thaddeus S. Danowski, M.D.</i>	<i>Pittsburgh, Pennsylvania</i>
<i>Peter H. Forsham, M.D.</i>	<i>San Francisco, California</i>
<i>Frederick C. Goetz, M.D.</i>	<i>Minneapolis, Minnesota</i>
<i>Irving Graef, M.D.</i>	<i>New York, New York</i>
<i>Reginald E. Haist, M.D.</i>	<i>Toronto, Canada</i>
<i>Paul E. Lacy, M.D.</i>	<i>St. Louis, Missouri</i>
<i>Rachmiel Lévine, M.D.</i>	<i>Duarte, California</i>
<i>Rolf Luft, M.D.</i>	<i>Stockholm, Sweden</i>
<i>Max Miller, M.D.</i>	<i>Cleveland, Ohio</i>
<i>Jesse Roth, M.D.</i>	<i>Bethesda, Maryland</i>
<i>Laurentius O. Underdahl, M.D.</i>	<i>Rochester, Minnesota</i>
<i>Sidney Weinhouse, M.D.</i>	<i>Philadelphia, Pennsylvania</i>
<i>Frank G. Young, Ph.D., D.Sc.</i>	<i>Cambridge, England</i>

Technical Editor

Walter J. Schoener, B.A. Minneapolis, Minnesota

Prepared for the
National Institute of Arthritis, Metabolism, and Digestive Diseases
through the cooperative efforts of the
University of Minnesota and the University of Rochester
pursuant to a contract with the
PHS, USDHEW, PH43-67-663

DHEW Publication No. (NIH) 77-303



CONTENTS

	Page
PREFACE	iv
EDITORIAL NOTE	v
HIERARCHICAL INDEX	
Arrangement of the HIERARCHICAL INDEX.....	2707
MEDLARS Terms Included in HIERARCHICAL INDEX	2709
KEYWORD INDEX	2755
AUTHOR INDEX	2837

PREFACE

Diabetes Literature Index is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

Scientific Communications Office
Diabetes Literature Index
National Institute of Arthritis,
Metabolism, and Digestive Diseases
Building 31, Room 9A-03
Bethesda, Maryland 20014

Other individuals and other libraries may receive this publication by subscribing *directly* to the Superintendent of Documents. Subscription price per year in the United States, Canada, and Mexico, \$26.50 (cumulative index issue not included; will be on sale, price to be determined later); foreign, \$6.65 additional; and \$2.25 for a single copy. Payment is required in advance, and check or money order should be made payable to the Superintendent of Documents. Address changes for subscribers should be sent *directly* to:

Superintendent of Documents
U.S. Government Printing Office
Washington, D.C. 20402

The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1978

EDITORIAL NOTE

Diabetes Literature Index, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index*.

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimental and clinical aspects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated condi-

tions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

Hierarchical Subject Index: This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the Diabetes Key Word Index and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus*; because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus*. At times the reason why a given citation appears under a specific subject heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under

the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In *Section 1*, "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In *Section 2*, "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

Key Word Index: For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are eliminated. In no case, however, is a change made within the title itself. Words which have not ap-

peared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

Author Index: Because of space limitations, the printed version of *Index Medicus* excludes all but the first three authors in multiple author publications. However since the last author is often the best known, this name may be the most useful for reference or retrieval; therefore, all authors are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.

Arrangement of the Hierarchical Index

I	SECTION 1. DIABETES MELLITUS AND RELATED TOPICS	I.E.3.5	HYPERGLYCEMIA, DRUG THERAPY
I.A	ISLANDS OF LANGERHANS	I.E.3.6	HYPERGLYCEMIA, ETIOLOGY
I.A.1	ISLANDS OF LANGERHANS, ANATOMY RELATED	I.E.3.7	HYPERGLYCEMIA, METABOLISM
I.A.2	ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED	I.E.3.8	HYPERGLYCEMIA, PHYSIOPATHOLOGY
I.A.3	ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED	I.E.3.9	HYPERGLYCEMIA, URINE
I.A.4	ISLANDS OF LANGERHANS, PHARMACOLOGY RELATED	I.E.4	GLYCOSURIA
I.A.5	ISLANDS OF LANGERHANS, PATHOLOGY RELATED	I.E.4.1	GLYCOSURIA, CHEMICALLY INDUCED
I.B	PANCREAS	I.E.4.2	GLYCOSURIA, COMPLICATIONS
I.B.1	PANCREAS, ANATOMY RELATED	I.E.4.3	GLYCOSURIA, DIAGNOSIS
I.B.2	PANCREAS, BIOCHEMISTRY RELATED	I.E.4.4	GLYCOSURIA, DRUG THERAPY
I.B.3	PANCREAS, PHYSIOLOGY RELATED	I.E.4.5	GLYCOSURIA, ENZYMOLOGY
I.B.4	PANCREAS, PHARMACOLOGY RELATED	I.E.4.6	GLYCOSURIA, ETIOLOGY
I.B.5	PANCREAS, PATHOLOGY RELATED	I.E.4.7	GLYCOSURIA, METABOLISM
I.B.6	PANCREAS, SURGERY RELATED	I.E.4.8	GLYCOSURIA, OCCURRENCE
I.B.6.1	PANCREAS, TRANSPLANTATION	I.E.5	GLYCOSURIA, RENAL
I.B.6.2	PANCREATECTOMY	I.E.6	HYPOGLYCEMIA
I.C	INSULIN	I.E.6.1	HYPOGLYCEMIA, BLOOD
I.C.1	INSULIN, BIOCHEMISTRY RELATED	I.E.6.2	HYPOGLYCEMIA, CHEMICALLY INDUCED
I.C.1.1	INSULIN, ISOLATION AND PURIFICATION	I.E.6.3	HYPOGLYCEMIA, COMPLICATIONS
I.C.1.2	INSULIN, ANALYSIS	I.E.6.4	HYPOGLYCEMIA, DIAGNOSIS
I.C.1.3	INSULIN, CHEMICAL SYNTHESIS	I.E.6.5	HYPOGLYCEMIA, DRUG THERAPY
I.C.1.4	INSULIN, BIOSYNTHESIS	I.E.6.6	HYPOGLYCEMIA, ETIOLOGY
I.C.1.5	INSULIN, METABOLISM	I.E.6.7	HYPOGLYCEMIA, METABOLISM
I.C.1.6	INSULIN, BLOOD	I.E.6.8	HYPOGLYCEMIA, PHYSIOPATHOLOGY
I.C.1.7	INSULIN, URINE	I.E.6.9	HYPOGLYCEMIA, THERAPY
I.C.2	INSULIN, PHYSIOLOGY RELATED	I.F	DIABETES
I.C.2.1	INSULIN, PHYSIOLOGY	I.F.1	ALLOXAN DIABETES (SEE SEC. I.F.10.2)
I.C.2.2	INSULIN, SECRETION	I.F.2	DIABETES MELLITUS
I.C.3	INSULIN, PHARMACOLOGY RELATED	I.F.2.1	DIABETES MELLITUS, JUVENILE
I.C.3.1	INSULIN, PHARMACODYNAMICS	I.F.3	DIABETES, BIOCHEMISTRY RELATED
I.C.3.2	INSULIN, ANTAGONISTS AND INHIBITORS	I.F.3.1	DIABETES, METABOLISM
I.C.3.3	INSULIN, ADVERSE EFFECTS	I.F.3.2	DIABETES, ENZYMOLOGY
I.C.4	HYPERINSULINISM	I.F.3.3	DIABETES, BLOOD
I.C.4.1	INSULIN COMA	I.F.3.4	DIABETES, URINE
I.C.5	INSULIN ANTIBODIES	I.F.4	DIABETES, PHYSIOPATHOLOGY
I.C.6	INSULIN RESISTANCE	I.F.5	DIABETES, IMMUNOLOGY
I.C.7	INSULIN, THERAPY RELATED	I.F.6	DIABETES COMPLICATIONS AND PATHOLOGY
I.C.7.1	INSULIN, DIAGNOSTIC USE	I.F.6.1	DIABETIC KETOACIDOSIS
I.C.7.2	INSULIN ADMINISTRATION AND DOSAGE (SEE I.F.9.3.1)	I.F.6.1.1	ACIDOSIS, DIABETIC
I.C.7.3	INSULIN, THERAPEUTIC USE (SEE I.F.9.3.2)	I.F.6.1.2	DIABETIC COMA
I.C.8	INSULIN, HISTORY	I.F.6.2	DIABETIC ANGIOPATHIES
I.D	GLUCAGON	I.F.6.3	DIABETIC NEPHROPATHIES
I.D.1	GLUCAGON, BIOCHEMISTRY RELATED	I.F.6.4	DIABETIC NEUROPATHIES
I.D.1.1	GLUCAGON, ANALYSIS	I.F.6.5	DIABETIC RETINOPATHY
I.D.1.2	GLUCAGON, METABOLISM	I.F.6.6	OTHER COMPLICATIONS OF DIABETES
I.D.1.3	GLUCAGON, BLOOD	I.F.6.7	DIABETES PATHOLOGY
I.D.2	GLUCAGON, PHYSIOLOGY RELATED	I.F.6.8	PREGNANCY IN DIABETES
I.D.2.1	GLUCAGON, PHYSIOLOGY	I.F.7	DIABETES OCCURRENCE, ETIOLOGY AND RELATED TERMS
I.D.2.2	GLUCAGON, SECRETION	I.F.7.1	DIABETES, OCCURRENCE
I.D.3	GLUCAGON, PHARMACOLOGY RELATED	I.F.7.2	DIABETES, ETIOLOGY
I.D.3.1	GLUCAGON, ADMINISTRATION AND DOSAGE	I.F.7.3	DIABETES, CONGENITAL
I.D.3.2	GLUCAGON, PHARMACODYNAMICS	I.F.7.4	DIABETES, FAMILIAL AND GENETIC
I.D.3.3	GLUCAGON, TOXICITY	I.F.7.5	PREDIABETIC STATE
I.D.4	GLUCAGON, THERAPY RELATED	I.F.8	DIABETES, DIAGNOSIS RELATED
I.D.4.1	GLUCAGON, DIAGNOSTIC USE	I.F.8.1	GLUCOSE TOLERANCE TEST (SEE SEC. I.E.2)
I.D.4.2	GLUCAGON, THERAPEUTIC USE	I.F.8.2	DIABETES, DIAGNOSIS
I.E	BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS	I.F.9	DIABETES, THERAPY RELATED
I.E.1	BLOOD SUGAR	I.F.9.1	DIABETES, PREVENTION AND CONTROL
I.E.1.1	BLOOD SUGAR, ANALYSIS	I.F.9.2	DIABETES, NUTRITION AND DIET THERAPY
I.E.1.2	BLOOD SUGAR, BIOSYNTHESIS	I.F.9.2.1	OBESITY IN DIABETES
I.E.1.3	BLOOD SUGAR, METABOLISM	I.F.9.2.2	GLUCOSE, THERAPEUTIC USE
I.E.1.4	BLOOD SUGAR, PHARMACODYNAMICS	I.F.9.2.3	DIET
I.E.2	GLUCOSE TOLERANCE TEST	I.F.9.2.4	DIABETIC DIET
I.E.3	HYPERGLYCEMIA	I.F.9.2.5	DIETARY CARBOHYDRATES
I.E.3.1	HYPERGLYCEMIA, BLOOD	I.F.9.2.6	DIETARY FATS
I.E.3.2	HYPERGLYCEMIA, CHEMICALLY INDUCED	I.F.9.2.7	CYCLAMATES
I.E.3.3	HYPERGLYCEMIA, COMPLICATIONS	I.F.9.2.8	SACCHARIN
I.E.3.4	HYPERGLYCEMIA, DIAGNOSIS	I.F.9.3	DIABETES, INSULIN AND THERAPY

Arrangement of the Hierarchical Index

1.F.9.3.1	INSULIN, ADMINISTRATION AND DOSAGE	2.G.2.6	JUVENILE HORMONES
1.F.9.3.2	INSULIN, THERAPEUTIC USE	2.G.3	CHROMAFFIN SYSTEM
1.F.9.4	DIABETES, ANTIDIABETICS AND THERAPY	2.G.4	PINEAL BODY
1.F.9.4.1	ANTIDIABETICS	2.G.5	PITUITARY-ADRENAL SYSTEM
1.F.9.4.2	TOLBUTAMIDE	2.G.6	SECRETORY RATE
1.F.9.4.3	OTHER SULFONYL-UREA DERIVATIVES		
1.F.9.4.4	PHENFORMIN		
1.F.9.4.5	OTHER BIGUANIDES		
1.F.9.5	DIABETES DRUG THERAPY		
1.F.9.6	DIABETES THERAPY		
1.F.9.7	DIABETES, RADIOGRAPHY		
1.F.9.8	DIABETES, SURGERY		
1.F.9.9	DIABETES, MORTALITY		
1.F.10	DIABETES, EXPERIMENTAL		
1.F.10.1	DIABETES, CHEMICALLY INDUCED		
1.F.10.2	ALLOXAN DIABETES		
1.F.10.2.1	ALLOXAN DIABETES, BLOOD		
1.F.10.2.2	ALLOXAN DIABETES, DRUG THERAPY		
1.F.10.2.3	ALLOXAN DIABETES, ENZYMOLOGY		
1.F.10.2.4	ALLOXAN DIABETES, METABOLISM		
1.F.10.2.5	ALLOXAN DIABETES, PATHOLOGY		
1.F.10.2.6	ALLOXAN DIABETES, PHYSIOPATHOLOGY		
1.F.11	DIABETES, VETERINARY		
1.F.12	DIABETES, HISTORY		
2	SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS		
2.A	ENDOCRINE PANCREAS		
2.A.1	ISLETS (SEE SEC. 1.A)		
2.A.2	INSULIN (SEE SEC. 1.C)		
2.A.3	GLUCAGON (SEE SEC. 1.D)		
2.B	ADRENAL GLANDS		
2.B.1	ADRENAL CORTEX		
2.B.2	ADRENAL CORTEX HORMONES		
2.B.2.1	GLUCOCORTICOIDS		
2.B.2.1.1	CORTISONE		
2.B.2.1.2	HYDROCORTISONE		
2.B.2.1.3	OTHER GLUCOCORTICOIDS		
2.B.2.2	MINERALOCORTICOIDS		
2.B.3	ADRENAL MEDULLA		
2.B.3.1	EPINEPHRINE		
2.B.3.2	NOREPINEPHRINE		
2.B.4	ADRENALECTOMY		
2.B.5	ADRENAL DISORDERS		
2.C	THYROID GLAND		
2.C.1	THYROID HORMONES		
2.C.2	THYROID ANTAGONISTS		
2.C.3	THYROID DISORDERS		
2.D	PARATHYROID GLANDS		
2.E	PITUITARY GLAND		
2.E.1	PITUITARY HORMONES, ANTERIOR		
2.E.1.1	CORTICOTROPIN		
2.E.1.2	SOMATOTROPIN		
2.E.1.3	THYROTROPIN		
2.E.1.4	GONADOTROPINS, PITUITARY		
2.E.2	PITUITARY HORMONES, POSTERIOR		
2.E.3	PITUITARY HORMONES, INTERMEDIATE		
2.E.4	PITUITARY HORMONE RELEASING FACTORS		
2.E.5	HYPOPHYSECTOMY		
2.E.6	PITUITARY DISORDERS		
2.F	GONADS		
2.F.1	OVARY		
2.F.2	TESTIS		
2.F.3	SEX HORMONES		
2.F.3.1	ANDROGENS		
2.F.3.2	ESTROGENS		
2.F.3.3	CORPUS LUTEUM AND PROGESTATIONAL HORMONES		
2.F.3.3.1	CORPUS LUTEUM HORMONES		
2.F.3.3.2	PROGESTATIONAL HORMONES		
2.F.3.4	CONTRACEPTIVES, ORAL		
2.F.4	GONADAL DISORDERS		
2.G	OTHER ENDOCRINES AND RELATED TERMS		
2.G.1	ENDOCRINE GLANDS		
2.G.2	HORMONES		
2.G.2.1	GASTROINTESTINAL HORMONES		
2.G.2.2	PROSTAGLANDINS		
2.G.2.3	HORMONES, ECTOPIC		
2.G.2.4	PLACENTAL HORMONES		
2.G.2.5	RELAXIN		

MEDLARS Terms Included in Hierarchical Index

ACETOHEXAMIDE	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES	PATHOLOGY	1.F.6.7 DIABETES PATHOLOGY
ACIDOSIS	1.F.6.1.1 ACIDOSIS, DIABETIC	PHYSIOPATHOLOGY	1.F.4 DIABETES, PHYSIOPATHOLOGY
ACIDOSIS, DIABETIC	1.F.6.1.1 ACIDOSIS, DIABETIC	PREVENTION & CONTROL	1.F.9.1 DIABETES, PREVENTION AND CONTROL
ACROMEGALY	2.E.6 PITUITARY DISORDERS	RADIOGRAPHY	1.F.9.7 DIABETES, RADIOGRAPHY
ADDISON'S DISEASE	2.B.5 ADRENAL DISORDERS	SURGERY	1.F.9.8 DIABETES, SURGERY
ADRENAL CORTEX HORMONES	2.B.2 ADRENAL CORTEX HORMONES	THERAPY	1.F.9.6 DIABETES THERAPY
ADRENAL GLAND HYPERFUNCTION	2.B.5 ADRENAL DISORDERS	URINE	1.F.3.4 DIABETES, URINE
ADRENAL GLAND HYPOFUNCTION	2.B.5 ADRENAL DISORDERS	VETERINARY	1.F.11 DIABETES, VETERINARY
ADRENAL GLANDS	2.B. ADRENAL GLANDS	DIABETES MELLITUS, JUVENILE	1.F.2.1 DIABETES MELLITUS, JUVENILE
ADRENAL MEDULLA	2.B.3 ADRENAL MEDULLA	BLOOD	1.F.3.3 DIABETES, BLOOD
ADRENALECTOMY	2.B.4 ADRENALECTOMY	CHEMICALLY INDUCED	1.F.10.1 DIABETES, CHEMICALLY INDUCED
ADRENOGENITAL SYNDROME	2.F.4 GONADAL DISORDERS	COMPLICATIONS	1.F.6.6 OTHER COMPLICATIONS OF DIABETES
	2.B.5 ADRENAL DISORDERS	CONGENITAL	1.F.7.3 DIABETES, CONGENITAL
	2.B.2.2 MINERALOCORTICOID	DIAGNOSIS	1.F.8.2 DIABETES, DIAGNOSIS
ALDOSTERONE	1.F.10.2 ALLOXAN DIABETES	DRUG THERAPY	1.F.9.5 DIABETES DRUG THERAPY
ALLOXAN DIABETES	1.F.10.2.1 ALLOXAN DIABETES, BLOOD	ENZYMOLGY	1.F.3.2 DIABETES, ENZYMOLOGY
BLOOD	1.F.10.2.2 ALLOXAN DIABETES, DRUG THERAPY	ETIOLOGY	1.F.7.2 DIABETES, ETIOLOGY
DRUG THERAPY	1.F.10.2.3 ALLOXAN DIABETES, ENZYMOLOGY	FAMILIAL & GENETIC	1.F.7.4 DIABETES, FAMILIAL AND GENETIC
ENZYMOLGY	1.F.10.2.4 ALLOXAN DIABETES, METABOLISM	HISTORY	1.F.12 DIABETES, HISTORY
METABOLISM	1.F.10.2.5 ALLOXAN DIABETES, PATHOLOGY	IMMUNOLOGY	1.F.5 DIABETES, IMMUNOLOGY
PATHOLOGY	1.F.10.2.6 ALLOXAN DIABETES, PHYSIOPATHOLOGY	METABOLISM	1.F.3.1 DIABETES, METABOLISM
PHYSIOPATHOLOGY	1.F.6.8 PREGNANCY IN DIABETES	MORTALITY	1.F.9.9 DIABETES, MORTALITY
	2.F.3.1 ANDROGENS	OCCURRENCE	1.F.7.1 DIABETES, OCCURRENCE
AMNIOCENTESIS	2.F.3.1 ANDROGENS	PATHOLOGY	1.F.6.7 DIABETES PATHOLOGY
ANABOLIC STEROIDS	2.F.3.1 ANDROGENS	PHYSIOPATHOLOGY	1.F.4 DIABETES, PHYSIOPATHOLOGY
ANDROGENS	2.F.3.1 ANDROGENS	PREVENTION & CONTROL	1.F.9.1 DIABETES, PREVENTION AND CONTROL
ANDROSTERONE	2.B.2.1.3 OTHER GLUCOCORTICOID	RADIOGRAPHY	1.F.9.7 DIABETES, RADIOGRAPHY
	1.F.9.4.1 ANTIDIABETICS	SURGERY	1.F.9.8 DIABETES, SURGERY
ANTIDIABETICS	1.F.6.8 PREGNANCY IN DIABETES	THERAPY	1.F.9.6 DIABETES THERAPY
APGAR SCORE	1.F.6.2 DIABETIC ANGIOPATHIES	URINE	1.F.3.4 DIABETES, URINE
ARTERIOSCLEROSIS	2.B.2.1.3 OTHER GLUCOCORTICOID	VETERINARY	1.F.11 DIABETES, VETERINARY
BETAMETHASONE	1.F.9.4.5 OTHER BIGUANIDES	DIABETIC ANGIOPATHIES	1.F.6.2 DIABETIC ANGIOPATHIES
BIGUANIDES	1.E.1 BLOOD SUGAR	DIABETIC COMA	1.F.6.1.2 DIABETIC COMA
BLOOD SUGAR	1.E.1.1 BLOOD SUGAR, ANALYSIS	DIABETIC DIET	1.F.9.2.4 DIABETIC DIET
ANALYSIS	1.E.1.2 BLOOD SUGAR, BIOSYNTHESIS	DIABETIC NEPHROPATHIES	1.F.6.3 DIABETIC NEPHROPATHIES
BIOSYNTHESIS	1.E.1.3 BLOOD SUGAR, METABOLISM	DIABETIC NEUROPATHIES	1.F.6.4 DIABETIC NEUROPATHIES
METABOLISM	1.E.1.4 BLOOD SUGAR, PHARMACODYNAMICS	DIABETIC RETINOPATHY	1.F.6.5 DIABETIC RETINOPATHY
PHARMACODYNAMICS	2.C.1 THYROID HORMONES	DIET	1.F.9.2.3 DIET
CALCITONIN	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES	DIET, ATHEROGENIC	1.F.9.2.3 DIET
CARBUTAMIDE	2.F.3.3.2 PROGESTATIONAL HORMONES	DIET, REDUCING	1.F.9.2.3 DIET
CHLORMADINONE	2.F.3.2 ESTROGENS	DIETARY CARBOHYDRATES	1.F.9.2.5 DIETARY CARBOHYDRATES
CHLOROTRIANISONE	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES	DIETARY FATS	1.F.9.2.6 DIETARY FATS
CHLOROPROPAMIDE	2.G.2.1 GASTROINTESTINAL HORMONES	DIETHYLSTILBESTROL	2.F.3.2 ESTROGENS
CHOLECYSTOKININ	1.F.9.2.6 DIETARY FATS	DIODOTYROSINE	2.C.1 THYROID HORMONES
CHOLESTEROL, DIETARY	2.G.3 CHROMAFFIN SYSTEM	DROMOSTANOLONE	2.F.3.1 ANDROGENS
CHROMAFFIN SYSTEM	2.F.3.4 CONTRACEPTIVES, ORAL	DWARFISM, PITUITARY	2.E.6 PITUITARY DISORDERS
CONTRACEPTIVES, ORAL	1.F.6.2 DIABETIC ANGIOPATHIES	HYDROGESTERONE	2.F.3.3.2 PROGESTATIONAL HORMONES
CORONARY DISEASE	2.F.1 OVARY	ECDYSONE	2.G.2 HORMONES
CORPUS LUTEUM	2.F.3.3.1 CORPUS LUTEUM HORMONES	ENDOCRINE DISEASES	2.G.1 ENDOCRINE GLANDS
CORPUS LUTEUM HORMONES	2.B.2.1.3 OTHER GLUCOCORTICOID	ENDOCRINE GLANDS	2.G.1 ENDOCRINE GLANDS
CORTICOSTERONE	2.E.1.1 CORTICOTROPIN	ENDOCRINE SYSTEM (NON MESH)	2 SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS
CORTICOTROPIN	2.E.4 PITUITARY HORMONE RELEASING FACTORS	EPINEPHRINE	2.B.3.1 EPINEPHRINE
CORTICOTROPIN RELEASING HORMONE	2.B.2.1.1 CORTISONE	ESTRADIOL	2.F.3.2 ESTROGENS
CORTISONE	2.C.3 THYROID DISORDERS	ESTRIOL	2.F.3.2 ESTROGENS
CRETINISM	2.B.5 ADRENAL DISORDERS	ESTROGENIC SUBSTANCES, CONJUGATED	2.F.3.2 ESTROGENS
CUSHINGS SYNDROME	1.F.9.2.7 CYCLAMATES	ESTROGENS	2.F.3.2 ESTROGENS
CYCLAMATES	1.C.2.2 INSULIN, SECRETION	ESTRONE	2.F.3.2 ESTROGENS
CYTOCHALASIN B	1.C.2.2 INSULIN, SECRETION	ETHINYL ESTRADIOL	2.F.3.2 ESTROGENS
CYTOCHALASINS	2.B.2.1.3 OTHER GLUCOCORTICOID	ETHISTERONE	2.F.3.2 ESTROGENS
DEHYDROEPIANDROSTERONE	2.F.3.1 ANDROGENS		2.F.3.3.2 PROGESTATIONAL HORMONES
	2.B.2.2 MINERALOCORTICOID	ETHYLESTRENOL	2.F.3.2 ESTROGENS
DESOXYCORTICOSTERONE	2.B.2.1.3 OTHER GLUCOCORTICOID	ETHYNDIOL DIACETATE	2.F.3.1 ANDROGENS
DEXAMETHASONE	2.E.6 PITUITARY DISORDERS	ETIOCHOLANOLONE	2.F.3.3.2 PROGESTATIONAL HORMONES
DIABETES INSIPIDUS	1.F.2 DIABETES MELLITUS		2.F.3.2 ESTROGENS
DIABETES MELLITUS	1.F.3.3 DIABETES, BLOOD		2.F.3.1 ANDROGENS
BLOOD	1.F.10.1 DIABETES, CHEMICALLY INDUCED		2.F.3.2 ESTROGENS
CHEMICALLY INDUCED	1.F.6.6 OTHER COMPLICATIONS OF DIABETES		2.F.3.1 ANDROGENS
COMPLICATIONS	1.F.7.3 DIABETES, CONGENITAL		2.F.4 GONADAL DISORDERS
CONGENITAL	1.F.8.2 DIABETES, DIAGNOSIS		2.B.2.1.3 OTHER GLUCOCORTICOID
DIAGNOSIS	1.F.9.5 DIABETES DRUG THERAPY		2.B.2.2 MINERALOCORTICOID
DRUG THERAPY	1.F.3.2 DIABETES, ENZYMOLOGY		2.B.2.1.3 OTHER GLUCOCORTICOID
ENZYMOLGY	1.F.7.2 DIABETES, ETIOLOGY		2.B.2.1.3 OTHER GLUCOCORTICOID
ETIOLOGY	1.F.7.4 DIABETES, FAMILIAL AND GENETIC		2.F.3.1 ANDROGENS
FAMILIAL & GENETIC	1.F.12 DIABETES, HISTORY		2.B.2.1.3 OTHER GLUCOCORTICOID
HISTORY	1.F.5 DIABETES, IMMUNOLOGY		2.E.6 PITUITARY DISORDERS
IMMUNOLOGY	1.F.3.1 DIABETES, METABOLISM		2.E.1.4 GONADOTROPINS, PITUITARY
METABOLISM	1.F.9.9 DIABETES, MORTALITY		2.G.2.1 GASTROINTESTINAL HORMONES
MORTALITY	1.F.7.1 DIABETES, OCCURRENCE		2.G.2.1 GASTROINTESTINAL HORMONES
OCCURRENCE			

MEDLARS Terms Included in Hierarchical Index

GIGANTISM
 GLIBENCLAMIDE
 GLUCAGON
 ADMINISTRATION & DOSAGE
 ANALYSIS
 BLOOD
 DIAGNOSTIC USE
 METABOLISM
 PHARMACODYNAMICS
 PHYSIOLOGY
 SECRETION
 THERAPEUTIC USE
 TOXICITY
 GLUCOCORTICOIDS
 GLUCOSE
 THERAPEUTIC USE
 GLUCOSE TOLERANCE TEST
 GLYCOSURIA
 CHEMICALLY INDUCED
 COMPLICATIONS
 DIAGNOSIS
 DRUG THERAPY
 ENZYMOLOGY
 ETIOLOGY
 METABOLISM
 OCCURRENCE
 GLYCOSURIA, RENAL
 GONADOTROPINS, CHORIONIC
 GONADOTROPINS, EQUINE
 GONADOTROPINS, PITUITARY
 GONADS
 GRAFIAN FOLLICLE
 GROWTH DISORDERS
 HERMAPHRODITISM
 HEXESTROL
 HORMONES
 HORMONES, ECTOPIC
 HYDROCORTISONE
 11-HYDROXYCORTICOSTEROIDS
 17-HYDROXYCORTICOSTEROIDS
 HYDROXYCORTICOSTEROIDS
 HYDROXYMETHYLTESTOSTERONE
 HYDROXYPROGESTERONE
 HYPERALDOSTERONISM
 HYPERGLYCEMIA
 BLOOD
 CHEMICALLY INDUCED
 COMPLICATIONS
 DIAGNOSIS
 DRUG THERAPY
 ETIOLOGY
 METABOLISM
 PHYSIOPATHOLOGY
 URINE
 HYPERINSULINISM
 HYPERTHYPITARISM
 HYPERTHYROIDISM
 HYPOGLYCEMIA
 BLOOD
 CHEMICALLY INDUCED
 COMPLICATIONS
 DIAGNOSIS
 DRUG THERAPY
 ETIOLOGY
 METABOLISM
 PHYSIOPATHOLOGY
 THERAPY
 HYPOGLYCEMIC AGENTS (NON MESH)
 HYPOGONADISM
 HYPOPHYSECTOMY
 HYPOTHYROIDISM
 HYPOTHYROIDISM
 INSULIN
 ADMINISTRATION & DOSAGE
 ADVERSE EFFECTS
 ANALYSIS
 ANTAGONISTS & INHIBITORS
 BIOSYNTHESIS
 BLOOD
 CHEM SYNTHESIS
 DIAGNOSTIC USE
 HISTORY
 ISOLATION & PURIFICATION
 METABOLISM
 PHARMACODYNAMICS

2.E.6 PITUITARY DISORDERS
1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
1.D.1 GLUCAGON
1.D.3.1 GLUCAGON, ADMINISTRATION AND DOSAGE
1.D.1.1 GLUCAGON, ANALYSIS
1.D.1.3 GLUCAGON, BLOOD
1.D.4.1 GLUCAGON, DIAGNOSTIC USE
1.D.1.2 GLUCAGON, METABOLISM
1.D.3.2 GLUCAGON, PHARMACODYNAMICS
1.D.2.1 GLUCAGON, PHYSIOLOGY
1.D.2.2 GLUCAGON, SECRETION
1.D.4.2 GLUCAGON, THERAPEUTIC USE
1.D.3.3 GLUCAGON, TOXICITY
2.B.2.1 GLUCOCORTICOIDS

1.F.9.2.2 GLUCOSE, THERAPEUTIC USE
1.E.2 GLUCOSE TOLERANCE TEST
1.E.4 GLYCOSURIA
1.E.4.1 GLYCOSURIA, CHEMICALLY INDUCED
1.E.4.2 GLYCOSURIA, COMPLICATIONS
1.E.4.3 GLYCOSURIA, DIAGNOSIS
1.E.4.4 GLYCOSURIA, DRUG THERAPY
1.E.4.5 GLYCOSURIA, ENZYMOLOGY
1.E.4.6 GLYCOSURIA, ETIOLOGY
1.E.4.7 GLYCOSURIA, METABOLISM
1.E.4.8 GLYCOSURIA, OCCURRENCE
1.E.5 GLYCOSURIA, RENAL
2.C.3 THYROID DISORDERS
2.G.2.4 PLACENTAL HORMONES
2.G.2.4 PLACENTAL HORMONES
2.E.1.4 GONADOTROPINS, PITUITARY
2.F.1 GONADS
2.F.1 OVARY
2.E.6 PITUITARY DISORDERS
2.F.4 GONADAL DISORDERS
2.F.3.2 ESTROGENS
2.G.2 HORMONES
2.G.2.3 HORMONES, ECOTOPIC
2.B.2.1.1 HYDROCORTISONE
2.B.2.1.3 OTHER GLUCOCORTICOIDS
2.B.2.1.3 OTHER GLUCOCORTICOIDS
2.B.2.1.3 OTHER GLUCOCORTICOIDS
2.B.2.1.3 OTHER GLUCOCORTICOIDS
2.F.3.1 ANDROGENS
2.B.2.1.3 OTHER GLUCOCORTICOIDS
2.F.3.3.2 PROGESTATIONAL HORMONES
2.B.5 ADRENAL DISORDERS
1.E.3 HYPERGLYCEMIA
1.E.3.1 HYPERGLYCEMIA, BLOOD
1.E.3.2 HYPERGLYCEMIA, CHEMICALLY INDUCED
1.E.3.3 HYPERGLYCEMIA, COMPLICATIONS
1.E.3.4 HYPERGLYCEMIA, DIAGNOSIS
1.E.3.5 HYPERGLYCEMIA, DRUG THERAPY
1.E.3.6 HYPERGLYCEMIA, ETIOLOGY
1.E.3.7 HYPERGLYCEMIA, METABOLISM
1.E.3.8 HYPERGLYCEMIA, PHYSIOPATHOLOGY
1.E.3.9 HYPERGLYCEMIA, URINE
1.C.4 HYPERINSULINISM
2.E.6 PITUITARY DISORDERS
2.C.3 THYROID DISORDERS
1.E.6 HYPOGLYCEMIA
1.E.6.1 HYPOGLYCEMIA, BLOOD
1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED
1.E.6.3 HYPOGLYCEMIA, COMPLICATIONS
1.E.6.4 HYPOGLYCEMIA, DIAGNOSIS
1.E.6.5 HYPOGLYCEMIA, DRUG THERAPY
1.E.6.6 HYPOGLYCEMIA, ETIOLOGY
1.E.6.7 HYPOGLYCEMIA, METABOLISM
1.E.6.8 HYPOGLYCEMIA, PHYSIOPATHOLOGY
1.E.6.9 HYPOGLYCEMIA, THERAPY
1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED
2.F.4 GONADAL DISORDERS
2.E.5 HYPOPHYSECTOMY
2.E.6 PITUITARY DISORDERS
2.C.3 THYROID DISORDERS
1.C.3 INSULIN
1.F.9.3.1 INSULIN, ADMINISTRATION AND DOSAGE
1.C.3.3 INSULIN, ADVERSE EFFECTS
1.C.3.2 INSULIN, ANALYSIS
1.C.3.2 INSULIN, ANTAGONISTS AND INHIBITORS
1.C.1.4 INSULIN, BIOSYNTHESIS
1.C.1.6 INSULIN, BLOOD
1.C.1.3 INSULIN, CHEMICAL SYNTHESIS
1.C.7.1 INSULIN, DIAGNOSTIC USE
1.C.8 INSULIN, HISTORY
1.C.1.1 INSULIN, ISOLATION AND PURIFICATION
1.C.1.5 INSULIN, METABOLISM
1.C.3.1 INSULIN, PHARMACODYNAMICS

PHYSIOLOGY
SECRETION
THERAPEUTIC USE
URINE
INSULIN ANTIBODIES
INSULIN COMA
INSULIN, GLOBIN ZINC
INSULIN, ISOPHANE
INSULIN, LENTE
INSULIN, PROTAMINE ZINC
INSULIN RESISTANCE
INVERTEBRATE HORMONES
ISLANDS OF LANGERHANS
ANALYSIS

ANATOMY & HISTOLOGY

BLOOD SUPPLY

CYTOLOGY

DRUG EFFECTS

EMBRYOLOGY

ENZYMOLGY

GROWTH & DEVELOPMENT

INNERVATION

METABOLISM

PATHOLOGY

PHYSIOLOGY

PHYSIOPATHOLOGY

SECRETION

ISLET CELL TUMOR

JUVENILE HORMONES
17-KETOSTEROIDS
KIMMELSTIEL-WILSON SYNDROME
KLINEFELTERS SYNDROME
LEYDIG CELL TUMOR
LEYDIG CELLS
LH
LH-FSH RELEASING HORMONE
LYNDESTROL
MEDROXYPROGESTERONE
MELATONIN
MESTRANOL
METAHEXAMIDE
METFORMIN
METHANDROSTENOLONE
METHYLPREDNISOLONE
METHYLTESTOSTERONE
METHYLTHIOURACIL
MINERALOCORTICOIDS
MSH
MYXEDEMA
NANDROLONE
NOREPINEPHRINE
NORETHANDROLONE
NORETHINDRONE
NORETHYNODREL
NORMETHANDROLONE
OBESITY IN DIABETES
OVARIAN CYSTS
OVARIAN DISEASES
OVARIAN NEOPLASMS
OVARY
OXANDROLONE
OXYMETHOLONE
OXYTOXICS
OXYTOCIN
PANCREAS
ANALYSIS
BLOOD SUPPLY
CYTOLOGY
DRUG EFFECTS
EMBRYOLOGY
ENZYMOLGY
INNERVATION
METABOLISM

1.C.2.1 INSULIN, PHYSIOLOGY
 1.C.2.2 INSULIN, SECRETION
 1.F.9.3.2 INSULIN, THERAPEUTIC USE
 1.C.1.7 INSULIN, URINE
 1.C.5 INSULIN ANTIBODIES
 1.C.4.1 INSULIN COMAS
 1.F.9.3.2 INSULIN, THERAPEUTIC USE
 1.F.9.3.2 INSULIN, THERAPEUTIC USE
 1.F.9.3.2 INSULIN, THERAPEUTIC USE
 1.F.9.3.2 INSULIN, THERAPEUTIC USE
 1.C.6 INSULIN RESISTANCE
 2.G.2.3 HORMONES, ECTOPIC
 1.A ISLANDS OF LANGERHANS
 1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED
 1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
 1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
 1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
 1.A.4 ISLANDS OF LANGERHANS, PHARMACOLOGY RELATED
 1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
 1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED
 1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
 1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
 1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED
 1.A.5 ISLANDS OF LANGERHANS, PATHOLOGY RELATED
 1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED
 1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED
 1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED
 1.A.5 ISLANDS OF LANGERHANS, PATHOLOGY RELATED
 2.G.2.6 JUVENILE HORMONES
 2.B.2.1.3 OTHER GLUCOCORTICOIDES
 1.F.6.3 DIABETIC NEPHROPATHIES
 2.F.4 GONADAL DISORDERS
 2.F.4 GONADAL DISORDERS
 2.F.2 TESTIS
 2.E.1.4 GONADOTROPINS, PITUITARY
 2.E.1.4 GONADOTROPINS, PITUITARY
 2.F.3.3.2 PROGESTATIONAL HORMONES
 2.F.3.3.2 PROGESTATIONAL HORMONES
 2.F.3 PITUITARY HORMONES, INTERMEDIATE
 2.F.3.2 ESTROGENS
 1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
 1.F.9.4.5 OTHER BIGUANIDES
 2.F.3.1 ANDROGENS
 2.B.2.1.3 OTHER GLUCOCORTICOIDES
 2.F.3.1 ANDROGENS
 2.C.2 THYROID ANTAGONISTS
 2.F.3.2 MINERALOCORTICOIDES
 2.E.3 PITUITARY HORMONES, INTERMEDIATE
 2.C.3 THYROID DISORDERS
 2.F.3.1 ANDROGENS
 2.B.3.2 NOREPINEPHRINE
 2.F.3.1 ANDROGENS
 2.F.3.3.2 PROGESTATIONAL HORMONES
 2.F.3.3.2 PROGESTATIONAL HORMONES
 2.F.3.1 ANDROGENS
 1.F.9.2.1 OBESITY IN DIABETES
 2.F.1 OVARY
 2.F.4 GONADAL DISORDERS
 2.F.4 GONADAL DISORDERS
 2.F.1 OVARY
 2.F.3.1 ANDROGENS
 2.F.3.1 ANDROGENS
 2.E.2 PITUITARY HORMONES, POSTERIOR
 2.E.2 PITUITARY HORMONES, POSTERIOR
 1.B PANCREAS
 1.B.2 PANCREAS, BIOCHEMISTRY RELATED
 1.B.1 PANCREAS, ANATOMY RELATED
 1.B.1 PANCREAS, ANATOMY RELATED
 1.B.4 PANCREAS, PHARMACOLOGY RELATED
 1.B.1 PANCREAS, ANATOMY RELATED
 1.B.2 PANCREAS, BIOCHEMISTRY RELATED
 1.B.1 PANCREAS, ANATOMY RELATED
 1.B.2 PANCREAS, BIOCHEMISTRY RELATED

MEDLARS Terms Included in Hierarchical Index

PATHOLOGY
 PHYSIOLOGY
 PHYSIOPATHOLOGY
 SECRETION
 TRANSPLANTATION
 PANCREATICTOMY
 PANCREATIC DISEASES
 PANCREATIC EXTRACTS
 PANCREATIC HORMONES
 PANCREOZYMIN
 PARAMETHASONE
 PARATHYROID DISEASES
 PARATHYROID GLANDS
 PARATHYROID HORMONE
 PHENFORMIN
 PINAL BODY
 PITUITARY-ADRENAL SYSTEM
 PITUITARY GLAND
 PITUITARY HORMONE RELEASING
 HORMONES
 PITUITARY HORMONES, ANTERIOR
 PITUITARY HORMONES, POSTERIOR
 PLACENTA DISORDERS
 PLACENTAL HORMONES
 PREDIABETIC STATE
 PREDNISOLONE
 PREDNISONE
 PREGNANCY
 PREGNANCY IN DIABETES
 PREGNANEDIOL
 PREGNANETRIOL

 PREGNENOLONE

 PROGESTATIONAL HORMONES
 PROGESTERONE
 PROINSULIN
 PROLACTIN
 PROPYLTHIOURACIL
 PROSTAGLANDINS
 PUBERTY, PRECOCIOUS
 RECEPTORS, HORMONE
 RELAXIN
 SACCHARIN
 SECRETIN
 SECRETORY RATE
 SERTOLI CELL TUMOR
 SERTOLI CELLS
 SEX DIFFERENTIATION DISORDERS
 SEX HORMONES
 SHEEHAN'S SYNDROME
 SKIN ULCER
 SOMATOTROPIN
 SOMATOTROPIN RELEASING HORMONE
 STANOLONE
 STANOZOLOL
 TESTICULAR DISEASES
 TESTICULAR FEMINIZATION
 TESTICULAR NEOPLASMS
 TESTIS
 TESTOSTERONE
 THIOCYANATES
 THIOURACIL
 THIOUREA
 THYROID ANTAGONISTS
 THYROID CRISIS
 THYROID GLAND
 THYROID HORMONES
 THYROIDITIS
 THYROIDITIS, LYMPHOMATOUS
 THYRONINE
 THYROTROPIN
 THYROTROPIN RELEASING HORMONE
 THYROXINE
 TOLAZAMIDE
 TOLBUTAMIDE
 TRIAMCINOLONE
 TRIIODOTHYRONINE
 TURNERS SYNDROME
 VASOPRESSIN
 VIRILISM
 WATERHOUSE-FRIDERICHSEN SYNDROME

B.5 PANCREAS, PATHOLOGY RELATED
 1.B.3 PANCREAS, PHYSIOLOGY RELATED
 1.B.3 PANCREAS, PHYSIOLOGY RELATED
 1.B.3 PANCREAS, PHYSIOLOGY RELATED
 1.B.3 PANCREAS, PHYSIOLOGY RELATED
 1.B.6.1 PANCREAS, TRANSPLANTATION
 1.B.6.2 PANCREATOMETRY
 1.B.5 PANCREAS, PATHOLOGY RELATED
 1.B.4 PANCREAS, PHARMACOLOGY RELATED
 1.B.2 PANCREAS, BIOCHEMISTRY RELATED
 2.G.2.1 GASTROINTESTINAL HORMONES
 2.B.2.1.3 OTHER GLUCOCORTICIDS
 2.D PARATHYROID GLANDS
 2.D PARATHYROID GLANDS
 2.D PARATHYROID GLANDS
 1.F.9.4.4 PNEUMOFILIN
 2.G.4 PINEAL BODY
 2.G.5 PITUITARY-ADRENAL SYSTEM
 2.E PITUITARY GLAND
 2.E.4 PITUITARY HORMONE RELEASING FACTORS
 2.E.1 PITUITARY HORMONES, ANTERIOR
 2.E.2 PITUITARY HORMONES, POSTERIOR
 1.F.6.8 PREGNANCY IN DIABETES
 2.G.2.4 PLACENTAL HORMONES
 1.F.7.5 PREDIABETIC STATE
 2.B.2.1.3 OTHER GLUCOCORTICIDS
 2.B.2.1.3 OTHER GLUCOCORTICIDS
 1.F.6.8 PREGNANCY IN DIABETES
 1.F.6.8 PREGNANCY IN DIABETES
 2.F.3.3.2 PROGESTATIONAL HORMONES
 2.B.2.1.3 OTHER GLUCOCORTICIDS
 2.F.3.3.2 PROGESTATIONAL HORMONES
 2.B.2.1.3 OTHER GLUCOCORTICIDS
 2.F.3.3.2 PROGESTATIONAL HORMONES
 2.F.3.3.2 PROGESTATIONAL HORMONES
 2.F.3.3.2 PROGESTATIONAL HORMONES
 1.C.1.4 INSULIN, BIOSYNTHESIS
 2.E.1.4 GONADOTROPINS, PITUITARY
 2.C.2 THYROID ANTAGONISTS
 2.G.2.2 PROSTAGLANDINS
 2.F.4 GONADAL DISORDERS
 2.G.2 HORMONES
 2.G.2.5 RELAXIN
 1.F.9.2.8 SACCCHARIN
 2.G.2.1 GASTROINTESTINAL HORMONES
 2.G.6 SECRETORY RATE
 2.F.4 GONADAL DISORDERS
 2.F.2 TESTIS
 2.F.4 GONADAL DISORDERS
 2.F.3 SEX HORMONES
 2.E.6 PITUITARY DISORDERS
 1.F.6.2 DIABETIC ANGIOPATHIES
 2.E.1.2 SOMATOTROPIN
 2.E.1.2 SOMATOTROPIN
 2.F.3.1 ANDROGENS
 2.F.3.1 ANDROGENS
 2.F.4 GONADAL DISORDERS
 2.F.4 GONADAL DISORDERS
 2.F.4 GONADAL DISORDERS
 2.F.2 TESTIS
 2.F.3.1 ANDROGENS
 2.C.2 THYROID ANTAGONISTS
 2.C.2 THYROID ANTAGONISTS
 2.C.2 THYROID ANTAGONISTS
 2.C.2 THYROID ANTAGONISTS
 2.C.3 THYROID DISORDERS
 2.C THYROID GLAND
 2.C.1 THYROID HORMONES
 2.C.3 THYROID DISORDERS
 2.C.3 THYROID DISORDERS
 2.C.1 THYROID HORMONES
 2.E.1.3 THYROTROPIN
 2.E.4 PITUITARY HORMONE RELEASING FACTORS
 2.C.1 THYROID HORMONES
 1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
 1.F.9.4.2 TOLBUTAMIDE
 2.B.2.1.3 OTHER GLUCOCORTICIDS
 2.C.1 THYROID HORMONES
 2.F.4 GONADAL DISORDERS
 2.E.2 PITUITARY HORMONES, POSTERIOR
 2.F.4 GONADAL DISORDERS
 2.B.5 ADRENAL DISORDERS

i

(i)

88

SE

TH

SECTION 1. DIABETES MELLITUS AND RELATED TOPICS

1.A ISLANDS OF LANGERHANS

NEW TYPES OF ISLET CELLS IN A CYCLOSTOME, PETROMYZON MARINUS L. Brinn JE, Eppl A *Cell Tissue Res* 171: 317-29, 26 Aug 76 (Eng) DL/77FEB39

PANCREATIC ISLET CELL TRANSPLANTATION AND DIABETES THERAPY. Monaco AP, Codish SD *Compr Ther* 2: 29-37, Nov 76 (Eng) DL/77FEB50

[XENOTRANSPLANTATION OF FETAL ENDOCRINE PANCREATIC TISSUE. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 690-9, 1976 (Fre) DL/77FEB61

ULTRASTRUCTURAL STUDIES OF HUMAN ACUTE PANCREATITIS. Taura S, Tsunoda T, Yoshino R, HARADA N, Akashi M *Gastroenterol Jpn* 10: 132-40, 1975 (Eng) DL/77FEB127

ISLET TRANSPLANTATION IN EXPERIMENTAL DIABETES OF THE RAT. V. REGRESSION OF GLOMERULAR LESIONS IN DIABETIC RATS AFTER INTRAPORTAL TRANSPLANTATION OF ISOGENEIC ISLETS. PRELIMINARY RESULTS. Federlin K, Bretzel RG, Schmidtchen U *Horm Metab Res* 8: 404-6, Sep 76 (Eng) DL/77FEB148

STRUCTURE-FUNCTION RELATIONSHIP: IMMUNOLOGIC. Hedning LG, Frandsen EK, Jacobsen H *Metabolism* 25: 1327-9, Nov 76 (Eng) DL/77FEB267

MORPHOMETRIC METHOD TO ESTIMATE THE PARAMETERS OF DISTRIBUTION FUNCTIONS ASSUMED FOR SPHERICAL BODIES FROM MEASUREMENTS ON A RANDOM SECTION. Suwa N, Takahashi T, Saito K, Sawai T *Tohoku J Exp Med* 118: 101-11, Feb 76 (Eng) DL/77FEB413

1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77FEB83

HYPERINSULINEMIA AND HYPERGLUCAGONEMIA FOLLOWING PANCREATIC ISLET TRANSPLANTATION IN DIABETIC RATS. Weber CJ, Hardy MA, Lerner RL, Felig P, Reemtsma K *Diabetes* 25: 944-8, Oct 76 (Eng) DL/77FEB101

SEPARATE AUTOANTIBODIES TO HUMAN PANCREATIC GLUCAGON AND SOMATOSTATIN CELLS. Bottazzo GF, Lendrum R *Lancet* 2: 873-6, 23 Oct 76 (Eng) DL/77FEB244

THE MICROANATOMY OF THE ISLETS OF LANGERHANS. Orci L *Metabolism* 25: 1303-13, Nov 76 (Eng) [30] DL/77FEB262

CENTRAL NERVOUS SYSTEM-MEDIATED STIMULATION OF GLUCAGON SECRETION IN THE DOG FOLLOWING 2-DEOXYGLUCOSE. Frohman LA, Nagai K *Metabolism* 25: 1449-52, Nov 76 (Eng) DL/77FEB295

NEUROHUMORAL REGULATION OF THE PANCREATIC ISLET A AND B CELLS. Porte D Jr, Smith PH, Ensink JW *Metabolism* 25: 1453-6, Nov 76 (Eng) [21] DL/77FEB296

PHYSIOLOGY AND PATHOPHYSIOLOGY OF GLUCAGON. Unger RH, Orci L *Physiol Rev* 56: 778-826, Oct 76 (Eng) [164] DL/77FEB365

FUNCTIONAL DIFFERENTIATION OF THE CHICK ENDOCRINE PANCREAS. II. THE ALPHA CELLS AND GLUCAGON. Benzo CA, Stearns SB *Am J Anat* 147: 273-9, Nov 76 (Eng) DL/77FEB465

[GANGLIOCYTIC PARANGLIOMA OF THE DUODENUM. ONE CASE WITH ELECTRON MICROSCOPE STUDY (AUTHORS TRANSL)] Kermarec J, Duplay H, Leabros F *Arch Anat Cytol Pathol* 24: 261-8, 1976 (Fre) DL/77FEB492

1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED

ENHANCEMENT BY D2O OF GLUCOSE-INDUCED CYCLIC AMP ACCUMULATION IN RAT ISLETS OF LANGERHANS. Grill V, Cerasi E *FEBs Lett* 68: 165-9, 1 Oct 76 (Eng) DL/77FEB78

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabete Metab* 1: 7-11, Mar 75 (Eng) DL/77FEB90

PROINSULIN SYNTHESIS IN ISLETS OF LANGERHANS FROM SPINY MICE (ACOMYS CAHIRINUS). COMPARISON WITH RATS AND MICE. Trueheart PA, Maldonado A, Kaelin D, Renold AE, Sharp GW *Diabetologia* 12: 463-70, Oct 76 (Eng) DL/77FEB115

EFFECTS OF STREPTOZOTOCIN IN VITRO ON PROINSULIN BIOSYNTHESIS, INSULIN RELEASE AND ATP CONTENT OF ISOLATED RAT ISLETS OF LANGERHANS. Maldonado A, Trueheart PA, Renold AE, Sharp GW *Diabetologia* 12: 471-81, Oct 76 (Eng) DL/77FEB116

EFFECTS OF IODOACETATE AND FLUORIDE ON ISLET RESPIRATION AND INSULIN BIOSYNTHESIS. Lin BJ, Henderson MJ, Levine BB, Nagy BR, Nagy EM *Horm Metab Res* 8: 353-8, Sep 76 (Eng) DL/77FEB141

[32P] ORTHOPHOSPHATE EFFLUX FROM PANCREATIC ISLETS: GRADED RESPONSE TO GLUCOSE STIMULATION. Pierce M, Bukowiecki L, Asplund K, Freinkel N *Horm Metab Res* 8: 358-61, Sep 76 (Eng) DL/77FEB142

INSULIN BIOSYNTHESIS IN PANCREATIC ISLETS ISOLATED FROM STARVED MICE. Andersson A *Horm Metab Res* 8: 403-4, Sep 76 (Eng) DL/77FEB147

INSULIN RELEASE AND THE MOVEMENTS OF CALCIUM IN PANCREATIC ISLETS. PP. 211-26. Malaisse WJ, Herchuelz A, Levy J, Somers G, Devis G *In O Carafoli E, et al., ed. Calcium transport in contraction and secretion. Amsterdam, North-Holland, 1975. QV 276 161c 1975.* (Eng) DL/77FEB179

IN VIVO AND IN VITRO ACTIONS OF SYNTHETIC PART SEQUENCES OF HUMAN PITUITARY GROWTH HORMONE. PP. 41-9. Bornstein J *In O Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975.* (Eng) DL/77FEB183

SOMATOSTATIN, A HORMONE OF THE ALPHA 1-CELLS OF THE PANCREATIC ISLETS AND ITS INFLUENCE ON THE SECRETION OF INSULIN AND GLUCAGON. PP. 216-21. Efendic S, Hokfelt T, Luft R *In O Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975.* (Eng) DL/77FEB190

THE MICROANATOMY OF THE ISLETS OF LANGERHANS. Orci L *Metabolism* 25: 1303-13, Nov 76 (Eng) [30] DL/77FEB262

BIOSYNTHESIS OF GLUCAGON. Noe BD *Metabolism* 25: 1339-41, Nov 76 (Eng) DL/77FEB269

IMMUNOREACTIVE GLUCAGONS IN PANCREATIC ISLETS. Tager HS, Markese J *Metabolism* 25: 1343-6, Nov 76 (Eng) DL/77FEB270

CONTROL OF GLUCAGON SECRETION BY NUTRIENTS IN VITRO. Matschinsky FM, Pagliara AS *Metabolism* 25: 1435-6, Nov 76 (Eng) DL/77FEB291

CALCIUM-ANTAGONISTS AND ISLET FUNCTION. VI. EFFECTS OF BARIUM. Somers G, Devis G, van Obberghen E, Malaisse WJ *Pfluegers Arch* 365: 21-8, 3 Sep 76 (Eng) DL/77FEB339

INSULIN RELEASE AND PHOSPHATE ION EFFLUX FROM RAT PANCREATIC ISLETS INDUCED BY L-LEUCINE AND ITS NON-METABOLIZABLE ANALOGUE, 2-AMINO-BICYCLO[2.2.1]HEPTANE-2-CARBOXYLIC ACID. Freinkel N, Younsi CE, Dawson RMC *Proc Natl Acad Sci USA* 73: 3403-7, Oct 76 (Eng) DL/77FEB358

HIGH CONCENTRATION OF GABA AND HIGH GLUTAMATE DECARBOXYLASE ACTIVITY IN RAT PANCREATIC ISLETS AND HUMAN INSULINOMA. Okada Y, Taniguchi H, Shimada C *Science* 194: 620-2, 5 Nov 76 (Eng) DL/77FEB398

THE USE OF FICOLL IN THE SEPARATION OF VIABLE ISLETS OF LANGERHANS FROM THE RAT PANCREAS. Nash JR, Horlor M, Bell PR *Transplantation* 22: 411-2, Oct 76 (Eng) DL/77FEB415

FUNCTIONAL DIFFERENTIATION OF THE CHICK ENDOCRINE PANCREAS. II. THE ALPHA CELLS AND GLUCAGON. Benzo CA, Stearns SB *Am J Anat* 147: 273-9, Nov 76 (Eng) DL/77FEB465

INOSINE-STIMULATED INSULIN RELEASE AND METABOLISM OF INOSINE IN ISOLATED MOUSE PANCREATIC ISLETS.

Diabetes Literature—Hierarchical Index

1.A ISLANDS OF LANGERHANS

Capito K, Hedeskov CJ *Biochem J* 158: 335-40, 15 Aug 76 (Eng) DL/77FEB505

1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED

ULTRASTRUCTURE OF B-CELLS OF LANGERHANS ISLETS IN RATS AFTER THE ADMINISTRATION OF L-LEUCINE. Galabova R, Petkov P *Endocrinol Exp (Bratisl)* 10: 217-23, 1976 (Eng) DL/77FEB67

PANCREATIC BETA CELL REPLICATION: EFFECTS OF HEXOSE SUGARS. King DL, Chick WL *Endocrinology* 99: 1003-9, OCT 76 (Eng) DL/77FEB68

SOMATOSTATIN AND INSULIN RELEASE FROM ISOLATED RAT PANCREATIC ISLETS STIMULATED BY GLUCOSE. Schauder P, McIntosh C, Arends J, Arnold R, Frerichs H, Creutzfeldt W *FEBS Lett* 68: 225-7, 1 Oct 76 (Eng) DL/77FEB79

EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL.) Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77FEB83

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltzer C, Leclercq-Meyer V, Mialhe P *Diabete Metab* 1: 39-44, Mar 75 (Fre) DL/77FEB86

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabete Metab* 1: 7-11, Mar 75 (Eng) DL/77FEB90

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteceuvre M, Buneaux JJ *Diabete Metab* 1: 101-11, Jun 75 (Eng) DL/77FEB91

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL.) Leclercq-Meyer V, Malaisse WJ *Diabete Metab* 1: 119-22, Jun 75 (Fre) DL/77FEB93

FEED-BACK INHIBITION OF INSULIN SECRETION IN SUBJECTS WITH HIGH AND LOW INSULIN RESPONSE TO GLUCOSE. Cerasi E *Diabete Metab* 1: 73-6, Jun 75 (Eng) DL/77FEB94

THE INHIBITION OF INSULIN SECRETION FROM THE PERFUSED RAT PANCREAS AFTER THYROXINE TREATMENT. Lenzen S, Joost HG, Hasselblatt A *Diabetologia* 12: 495-500, Oct 76 (Eng) DL/77FEB118

EVIDENCE FOR A HYPOPHYSEAL FACTOR THAT STIMULATES INSULIN SECRETION BY THE PANCREAS (INSULOTROPHINE) Chieri RA, Basabe JC, Farina JM *Horm Metab Res* 8: 329-32, Sep 76 (Eng) DL/77FEB137

CALCIUM AND STIMULUS-SECRETION COUPLING IN PANCREATIC ISLET CELLS. PP. 203-10. Matthews EK *Ino Carafoli E, et al., ed. Calcium transport in contraction and secretion. Amsterdam, North-Holland, 1975. QV 276 161c* 1975. (Eng) DL/77FEB178

GROWTH HORMONE AND INSULIN SECRETION. PP. 116-26. Bennett LL, Curry DL *Ino*

Pectile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB180

ADRENAL AND PANCREATIC ENDOCRINE RESPONSES TO HYPOXIA IN THE CONSCIOUS CALF. Bloom SR, Edwards AV, Hardy RN, Silver M *J Physiol (Lond)* 261: 271-83, Oct 76 (Eng) DL/77FEB212

THE ROLE OF GLUCAGON-INSULIN INTERACTIONS IN CONTROL OF GLUCOSE TURNOVER AND ITS SIGNIFICANCE IN DIABETES. Vranic M, Ross G, Doi K, Lickley L *Metabolism* 25: 1375-80, Nov 76 (Eng) DL/77FEB277

CONTROL OF GLUCAGON SECRETION BY NUTRIENTS IN VITRO. Matschinsky FM, Pagliara AS *Metabolism* 25: 1435-6, Nov 76 (Eng) DL/77FEB291

CONTROL OF PANCREATIC IRG SECRETION IN VIVO. Gerich JE *Metabolism* 25: 1437-41, Nov 76 (Eng) [13] DL/77FEB292

INTRAISLET NEGATIVE INSULIN-GLUCAGON FEEDBACK. Samols E, Harrison J *Metabolism* 25: 1443-7, Nov 76 (Eng) DL/77FEB293

CENTRAL NERVOUS SYSTEM-MEDIATED STIMULATION OF GLUCAGON SECRETION IN THE DOG FOLLOWING 2-DEOXYGLUCOSE. Frohman LA, Nagai K *Metabolism* 25: 1449-52, Nov 76 (Eng) DL/77FEB295

NEUROHUMORAL REGULATION OF THE PANCREATIC ISLET A AND B CELLS. Porte D Jr, Smith PH, Einsack JW *Metabolism* 25: 1453-6, Nov 76 (Eng) [21] DL/77FEB296

GUT HORMONES AND THE ALPHA CELL. Bloom SR, Iversen J *Metabolism* 25: 1457-8, Nov 76 (Eng) DL/77FEB297

EFFECTS OF NEUROTENSIN AND SUBSTANCE P ON INSULIN AND GLUCAGON RELEASE BY THE PERFUSED DOG PANCREAS [PROCEEDINGS]. Patton G, Brown M, Dobbs R, Vale W, Unger RH *Metabolism* 25: 1465, Nov 76 (Eng) DL/77FEB300

COMPARISON STUDIES OF NEUROTENSIN AND XENOPSIN UPON PANCREATIC SECRETION IN THE DOG [PROCEEDINGS]. Ishida T, Kawamura K, Goto A, Nishina Y, Takahara J *Metabolism* 25: 1467, Nov 76 (Eng) DL/77FEB301

REMARKABLE POTENCY OF SOMATOSTATIN AS A GLUCAGON SUPPRESSANT. Samols E, Harrison J *Metabolism* 25: 1495-7, Nov 76 (Eng) DL/77FEB307

STIMULATION OF PANCREATIC IMMUNOREACTIVE SOMATOSTATIN (IRS) RELEASE BY GLUCAGON [PROCEEDINGS]. Patton GS, Dobbs R, Orci L, Vale W, Unger RH *Metabolism* 25: 1499, Nov 76 (Eng) DL/77FEB308

ALPHA CELL FUNCTION IN DIABETES MELLITUS. Gerich JE *Metabolism* 25: 1513-6, Nov 76 (Eng) DL/77FEB312

REGULATION OF GLUCAGON SECRETION OF THE DIABETIC PANCREAS IN VITRO [PROCEEDINGS]. Matschinsky FM, Pagliara AS *Metabolism* 25: 1517, Nov 76 (Eng) DL/77FEB313

GLUCAGON SECRETION FROM THE PERFUSED RAT PANCREAS FOLLOWING ACUTE AND CHRONIC STREPTOZOTOCIN. Weir GC, Atkins RF, Martin DB *Metabolism* 25: 1519-21, Nov 76 (Eng) DL/77FEB314

EVIDENCE FOR AN INSULIN-INDEPENDENT ALPHA-CELL ABNORMALITY IN HUMAN

DIABETES. Bennett PH, Aronoff SL, Unger RH *Metabolism* 25: 1527-9, Nov 76 (Eng) DL/77FEB316

CALCIUM-ANTAGONISTS AND ISLET FUNCTION. VI. EFFECTS OF BARIUM. Somers G, Devis G, van Obberghen E, Malaisse WJ *Pflugers Arch* 365: 21-8, 3 Sep 76 (Eng) DL/77FEB339

EFFECT OF HEPARIN ON INSULIN SECRETION IN VIVO AND IN VITRO. Orosz I *Res Exp Med (Berl)* 167: 239-54, 2 Jul 76 (Eng) DL/77FEB377

[CURRENT STATUS OF THE PROBLEM OF SECURING THE ENERGY REQUIREMENTS OF A PATIENT BY THE PARENTERAL ROUTE] Kremer LuN, Vitolina SP *Vopr Pitan* 7-16, Sep-Oct 76 (Rus) [101] DL/77FEB427

EXTRACELLULAR CALCIUM AND ADRENERGIC AND CHOLINERGIC EFFECTS ON ISLET BETA-CELL FUNCTION. Burr JM, Slonim AE, Burke V, Fletcher T *Am J Physiol* 231: 1246-9, Oct 76 (Eng) DL/77FEB476

STUDIES WITH THE AUTOTRANSPLANTED OVINE PANCREAS: GLUCAGON AND INSULIN SECRETION. Arcus AC, Ellis MJ, Kirk RD, Beaven DW, Donald RA, Hart DS, Holland GW, Redekopp C *Aust J Biol Sci* 29: 223-36, Jul 76 (Eng) DL/77FEB496

INOSINE-STIMULATED INSULIN RELEASE AND METABOLISM OF INOSINE IN ISOLATED MOUSE PANCREATIC ISLETS. Capito K, Hedeskov CJ *Biochem J* 158: 335-40, 15 Aug 76 (Eng) DL/77FEB505

1.A.4 ISLANDS OF LANGERHANS, PHARMACOLOGY RELATED

ULTRASTRUCTURE OF B-CELLS OF LANGERHANS ISLETS IN RATS AFTER THE ADMINISTRATION OF L-LEUCINE. Galabova R, Petkov P *Endocrinol Exp (Bratisl)* 10: 217-23, 1976 (Eng) DL/77FEB67

PANCREATIC BETA CELL REPLICATION: EFFECTS OF HEXOSE SUGARS. King DL, Chick WL *Endocrinology* 99: 1003-9, OCT 76 (Eng) DL/77FEB68

ENHANCEMENT BY D2O OF GLUCOSE-INDUCED CYCLIC AMP ACCUMULATION IN RAT ISLETS OF LANGERHANS. Grill V, Cerasi E *FEBS Lett* 68: 165-9, 1 Oct 76 (Eng) DL/77FEB78

SOMATOSTATIN AND INSULIN RELEASE FROM ISOLATED RAT PANCREATIC ISLETS STIMULATED BY GLUCOSE. Schauder P, McIntosh C, Arends J, Arnold R, Frerichs H, Creutzfeldt W *FEBS Lett* 68: 225-7, 1 Oct 76 (Eng) DL/77FEB79

EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL.) Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77FEB83

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltzer C, Leclercq-Meyer V, Mialhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77FEB86

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabete Metab* 1: 7-11, Mar 75 (Eng) DL/77FEB90

Diabetes Literature—Hierarchical Index

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteceuvre M, Bunea JJ *Diabetes Metab* 1: 101-11, Jun 75 (Eng) DL/77FEB91

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL.)] Leclercq-Meyer V, Malaisse WJ *Diabetes Metab* 1: 119-22, Jun 75 (Fre) DL/77FEB93

FEED-BACK INHIBITION OF INSULIN SECRETION IN SUBJECTS WITH HIGH AND LOW INSULIN RESPONSE TO GLUCOSE. Cerasi E *Diabetes Metab* 1: 73-6, Jun 75 (Eng) DL/77FEB94

EFFECTS OF STREPTOZOTOCIN IN VITRO ON PROINSULIN BIOSYNTHESIS, INSULIN RELEASE AND ATP CONTENT OF ISOLATED RAT ISLETS OF LANGERHANS. Maldonato A, Trueheart PA, Renold AE, Sharp GW *Diabetologia* 12: 471-81, Oct 76 (Eng) DL/77FEB116

THE INHIBITION OF INSULIN SECRETION FROM THE PERFUSED RAT PANCREAS AFTER THYROID TREATMENT. Lenzén S, Joost HG, Hasselblatt A *Diabetologia* 12: 493-500, Oct 76 (Eng) DL/77FEB118

EVIDENCE FOR A HYPOTHYSEAL FACTOR THAT STIMULATES INSULIN SECRETION BY THE PANCREAS (INSULOTROPHINE) Chieri RA, Basabe JC, Farina JM *Horm Metab Res* 8: 329-32, Sep 76 (Eng) DL/77FEB137

EFFECTS OF IODOACETATE AND FLUORIDE ON ISLET RESPIRATION AND INSULIN BIOSYNTHESIS. Lin BJ, Henderson MJ, Levine BB, Nagy BR, Nagy EM *Horm Metab Res* 8: 353-8, Sep 76 (Eng) DL/77FEB141

[32P] ORTHOPHOSPHATE EFFLUX FROM PANCREATIC ISLETS: GRADED RESPONSE TO GLUCOSE STIMULATION. Pierce M, Bukowiecki L, Asplund K, Freinkel N *Horm Metab Res* 8: 358-61, Sep 76 (Eng) DL/77FEB142

INSULIN BIOSYNTHESIS IN PANCREATIC ISLETS ISOLATED FROM STARVED MICE. Andersson A *Horm Metab Res* 8: 403-4, Sep 76 (Eng) DL/77FEB147

CALCIUM AND STIMULUS-SECRETION COUPLING IN PANCREATIC ISLET CELLS. PP. 203-10. Matthews EK, In0 Carafoli E, et al., ed. *Calcium transport in contraction and secretion.* Amsterdam, North-Holland, 1975. QV 276 161c 1975. (Eng) DL/77FEB178

INSULIN RELEASE AND THE MOVEMENTS OF CALCIUM IN PANCREATIC ISLETS. PP. 211-26. Malaisse WJ, Herchuelz A, Levy J, Somers G, Devis G *In0 Carafoli E, et al., ed. Calcium transport in contraction and secretion.* Amsterdam, North-Holland, 1975. QV 276 161c 1975. (Eng) DL/77FEB179

GROWTH HORMONE AND INSULIN SECRETION. PP. 116-26. Bennett LL, Curry DL *In0 Pecile A, Muller EE, ed. Growth hormone and related peptides.* Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB180

IN VIVO AND IN VITRO ACTIONS OF SYNTHETIC PART SEQUENCES OF HUMAN PITUITARY GROWTH HORMONE. PP. 41-9. Bornstein J *In0 Pecile A, Muller EE, ed. Growth hormone and related peptides.* Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB183

SOMATOSTATIN, A HORMONE OF THE ALPHA 1-CELLS OF THE PANCREATIC ISLETS AND ITS INFLUENCE ON THE

SECRETION OF INSULIN AND GLUCAGON. PP. 216-21. Efendic S, Hokfelt T, Luft R *In0 Pecile A, Muller EE, ed. Growth hormone and related peptides.* Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB190

CONTROL OF GLUCAGON SECRETION BY NUTRIENTS IN VITRO. Matschinsky FM, Pagliara AS *Metabolism* 25: 1435-6, Nov 76 (Eng) DL/77FEB291

INTRAISLET NEGATIVE INSULIN-GLUCAGON FEEDBACK. Samols E, Harrison J *Metabolism* 25: 1443-7, Nov 76 (Eng) DL/77FEB293

CENTRAL NERVOUS SYSTEM-MEDIATED STIMULATION OF GLUCAGON SECRETION IN THE DOG FOLLOWING 2-DEOXYGLUCOSE. Frohman LA, Nagai K *Metabolism* 25: 1449-52, Nov 76 (Eng) DL/77FEB295

NEUROHUMORAL REGULATION OF THE PANCREATIC ISLET A AND B CELLS. Porte D Jr, Smith PH, Ensink JW *Metabolism* 25: 1453-6, Nov 76 (Eng) [21] DL/77FEB296

GUT HORMONES AND THE ALPHA CELL. Bloom SR, Iversen J *Metabolism* 25: 1457-8, Nov 76 (Eng) DL/77FEB297

EFFECTS OF NEUROTENSIN AND SUBSTANCE P ON INSULIN AND GLUCAGON RELEASE BY THE PERFUSED DOG PANCREAS [PROCEEDINGS]. Patton G, Brown M, Dobbs R, Vale W, Unger RH *Metabolism* 25: 1465, Nov 76 (Eng) DL/77FEB300

COMPARISON STUDIES OF NEUROTENSIN AND XENOPIN UPON PANCREATIC SECRETION IN THE DOG [PROCEEDINGS]. Ishida T, Kawamura K, Goto A, Nishina Y, Takahara J *Metabolism* 25: 1467, Nov 76 (Eng) DL/77FEB301

REMARKABLE POTENCY OF SOMATOSTATIN AS A GLUCAGON SUPPRESSANT. Samols E, Harrison J *Metabolism* 25: 1495-7, Nov 76 (Eng) DL/77FEB307

STIMULATION OF PANCREATIC IMMUNOREACTIVE SOMATOSTATIN (IRS) RELEASE BY GLUCAGON [PROCEEDINGS]. Patton GS, Dobbs R, Orci L, Vale W, Unger RH *Metabolism* 25: 1499, Nov 76 (Eng) DL/77FEB308

ALPHA CELL FUNCTION IN DIABETES MELITUS. Gerich JE *Metabolism* 25: 1513-6, Nov 76 (Eng) DL/77FEB312

REGULATION OF GLUCAGON SECRETION OF THE DIABETIC PANCREAS IN VITRO [PROCEEDINGS]. Matschinsky FM, Pagliara AS *Metabolism* 25: 1517, Nov 76 (Eng) DL/77FEB313

GLUCAGON SECRETION FROM THE PERFUSED RAT PANCREAS FOLLOWING ACUTE AND CHRONIC STREPTOZOTOCIN. Weir GC, Atkins RF, Martin DB *Metabolism* 25: 1519-21, Nov 76 (Eng) DL/77FEB314

CALCIUM-ANTAGONISTS AND ISLET FUNCTION. VI. EFFECTS OF BARIUM. Somers G, Devis G, van Obberghen E, Malaisse WJ *Pfluegers Arch* 365: 21-8, 3 Sep 76 (Eng) DL/77FEB339

INSULIN RELEASE AND PHOSPHATE ION EFFLUX FROM RAT PANCREATIC ISLETS INDUCED BY L-LEUCINE AND ITS NON-METABOLIZABLE ANALOGUE, 2-AMINO-BICYCLO[2.2.1]HEPTANE-2-CARBOXYLIC ACID. Freinkel N, Younsi CE, Dawson RMC *Proc Natl Acad Sci USA* 73: 3403-7, Oct 76 (Eng) DL/77FEB358

EXTRACELLULAR CALCIUM AND ADRENERGIC AND CHOLINERGIC EFFECTS ON

1.A ISLANDS OF LANGERHANS

ISLET BETA-CELL FUNCTION. Burr IM, Slonim AE, Burke V, Fletcher T *Am J Physiol* 231: 1246-9, Oct 76 (Eng) DL/77FEB476

EFFECT OF SOMATOTROPIN UPON A FRESH-WATER FISH, CHANNA PUNCTATUS (BLOCH). Gill TS *Anat Anz* 140: 199-201, 1976 (Eng) DL/77FEB485

1.A.5 ISLANDS OF LANGERHANS, PATHOLOGY RELATED

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabetes Metab* 1: 7-11, Mar 75 (Eng) DL/77FEB90

CLINICAL CORRELATIONS OF SERUM PROINSULIN-LIKE MATERIAL IN ISLET CELL TUMOURS. Alsever RN, Stjernholm MR, Sussman KE, Mako ME, Rubenstein AH *Diabetologia* 12: 527-30, Oct 76 (Eng) DL/77FEB123

PANCREATIC ISLET INJURY INDUCED BY METHYL MERCURIC CHLORIDE LIGHT AND ELECTRON MICROSCOPIC STUDIES. Shigenaga K *Kumamoto Med J* 29: 67-81, 30 Jun 76 (Eng) DL/77FEB232

HETEROGENEITY OF PLASMA GLUCAGON IN MAN. Jaspán JB, Kuku SF, Locker JD, Huen A, Emmanouel DS, Katz AI, Rubenstein AH *Metabolism* 25: 1397-401, Nov 76 (Eng) DL/77FEB282

PARTIAL PURIFICATION AND CHARACTERIZATION OF THE MRNA FOR RAT PREPROINSULIN. Duguid JR, Steiner DF, Chick WL *Proc Natl Acad Sci USA* 73: 3539-43, Oct 76 (Eng) DL/77FEB359

HIGH CONCENTRATION OF GABA AND HIGH GLUTAMATE DECARBOXYLASE ACTIVITY IN RAT PANCREATIC ISLETS AND HUMAN INSULINOMA. Okada Y, Taniguchi H, Schimada C *Science* 194: 620-2, 5 Nov 76 (Eng) DL/77FEB398

HYPOGLYCEMIA: THE UNDISEASE. Blonde L, Riddick FA Jr *South Med J* 69: 1261-5, Oct 76 (Eng) DL/77FEB402

HISTOLOGIC CHARACTERISTICS OF INSULINOMAS AND GASTRINOMAS. VALUE OF ARGYROPHILIA, METACHROMASIA, IMMUNOHISTOCHEMISTRY, AND ELECTRON MICROSCOPY FOR THE IDENTIFICATION OF GASTROINTESTINAL AND PANCREATIC ENDOCRINE CELLS AND THEIR TUMORS. Woodtli W, Hedinger C *Virchows Arch [Pathol Anat]* 371: 331-50, 7 Oct 76 (Eng) DL/77FEB425

[THE SIGNIFICANCE OF STRESS INTENSITY FOR THE EMOTIONAL AND VISCERAL REACTIVITY, ESPECIALLY FOR BLOOD PRESSURE REGULATION] Hecht K, Hai NV, Moritz V, Hecht T *Acta Biol Med Ger* 35: 23-33, 1976 (Ger) DL/77FEB448

[CORRELATIONS BETWEEN HIPPOCAMPUS FUNCTION AND STRESSED LEARNING AND THEIR EFFECT ON CEREBRO-VISCERAL REGULATION PROCESSES] Hecht K, Hai NV, Hecht T, Moritz V, Woosmann H *Acta Biol Med Ger* 35: 35-45, 1976 (Ger) DL/77FEB449

TUMORS OF THE ISLETS OF LANGERHANS. Zollinger RM, Mazzaferri EL *Adv Surg* 10: 137-76, 1976 (Eng) [73] DL/77FEB464

PANCREATIC ISLET CELL CARCINOMA IN A DOG TREATED WITH STREPTOZOTOCIN.

Diabetes Literature—Hierarchical Index

1.B PANCREAS

Meyer DJ *Am J Vet Res* 37: 1221-3, Oct 76 (Eng) DL/77FEB487

EFFECT OF STREPTOZOCIN ON GASTRIN RELEASE. Stadil F, Stage JG *Scand J Gastroenterol [Suppl]* 11: 67-70, 1976 (Eng) *DL/77FEB680

[SCINTIGRAPHY OF THE PANCREAS IN INSULOMA] Romanova A, Zografski A, Kaneti Ia *Vutr Boles* 14: 123-7, 1975 (Bul) *DL/77FEB682

1.B PANCREAS

ULTRASTRUCTURAL STUDIES OF HUMAN ACUTE PANCREATITIS. Taura S, Tsunoda T, Yoshino R, HARADA N, Akashi M *Gastroenterol Jpn* 10: 132-40, 1975 (Eng) DL/77FEB127

GUT HORMONES AND THE ALPHA CELL. Bloom SR, Iversen J *Metabolism* 25: 1457-8, Nov 76 (Eng) DL/77FEB297

[SCINTIGRAPHY OF THE PANCREAS IN INSULOMA] Romanova A, Zografski A, Kaneti Ia *Vutr Boles* 14: 123-7, 1975 (Bul) *DL/77FEB682

1.B.1 PANCREAS, ANATOMY RELATED

FOETAL RAT PANCREAS IN ORGAN CULTURE. EFFECT OF CORTICOSTERONE CONCENTRATIONS ON THE ACINAR AND ISLET CELL COMPONENTS. McEvoy RC, Hegre OD, Lazarow A *Differentiation* 6: 17-26, 16 Mar 76 (Eng) DL/77FEB125

INSULIN, GLUCAGON, AND THE CONTROL OF HEPATIC STRUCTURE, FUNCTION, AND CAPACITY FOR REGENERATION. Starzl TE, Porter KA, Putnam CW *Metabolism* 25: 1429-34, Nov 76 (Eng) DL/77FEB290

GASTRIC A-CELL FUNCTION IN NORMAL DOGS. Munoz-Barragan L, Blazquez E, Patton GS, Dobbs RE, Unger RH *Am J Physiol* 231: 1057-61, Oct 76 (Eng) DL/77FEB474

1.B.2 PANCREAS, BIOCHEMISTRY RELATED

[INTRAVENOUS AND ORAL GLUCOSE: PRODUCTION OF INSULIN AND GROWTH HORMONE IN THE NEWBORN INFANT] Dorantes Alvarez L, De Los Monteros Mena AE, Matus Secura A, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 979-92, Sep-Oct 76 (Spa) DL/77FEB3

ADENYLATE CYCLASE ACTIVITY IN HUMAN TISSUES. Constantopoulos A, Xypolita A, Matsaniotis N *Biol Neonate* 29: 294-8, 1976 (Eng) DL/77FEB14

NEW TYPES OF ISLET CELLS IN A CYCLOSTOME, PETROMYZON MARINUS L. Brinn JE, Epple A *Cell Tissue Res* 171: 317-29, 26 Aug 76 (Eng) DL/77FEB39

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteocouverture M, Buneaux JJ *Diabete Metab* 1: 101-11, Jun 75 (Eng) DL/77FEB91

FOETAL RAT PANCREAS IN ORGAN CULTURE. EFFECT OF CORTICOSTERONE CONCENTRATIONS ON THE ACINAR AND ISLET CELL COMPONENTS. McEvoy RC, Hegre OD, Lazarow A *Differentiation* 6: 17-26, 16 Mar 76 (Eng) DL/77FEB125

[FUNCTION TEST OF THE HUMAN FETAL PANCREAS (AUTHORS TRANSL)] Nakai T, Yamada R *Jpn J Clin Pathol* 24: 673-7, Aug 76 (Jpn) DL/77FEB221

HUMAN C-PEPTIDE. PART II: CLINICAL STUDIES. Beischer W, Heinze E, Keller L, Raptis S, Kerner W, Pfeiffer EF *Klin Wochenschr* 54: 717-25, 1 Aug 76 (Eng) DL/77FEB228

CHARACTERISTICS OF TISSUE IRGS IN THE DOG. Srikant CB, McCorkle K, Unger RH *Metabolism* 25: 1403-4, Nov 76 (Eng) DL/77FEB283

COMPARISON STUDIES OF NEUROTENSIN AND XENOPIN UPON PANCREATIC SECRETION IN THE DOG [PROCEEDINGS]. Ishida T, Kawamura K, Goto A, Nishina Y, Takahara J *Metabolism* 25: 1467, Nov 76 (Eng) DL/77FEB301

HIGH CONCENTRATION OF GABA AND HIGH GLUTAMATE DECARBOXYLASE ACTIVITY IN RAT PANCREATIC ISLETS AND HUMAN INSULINOMA. Okada Y, Taniguchi H, Shimada C *Science* 194: 620-2, 5 Nov 76 (Eng) DL/77FEB398

CHANGES IN CARBOHYDRATE METABOLISM AND ENDOCRINE FUNCTION OF REMNANT PANCREAS AFTER MAJOR PANCREATIC RESECTION. Yasugi H, Mizumoto R, Sakurai H, Honjo I *Am J Surg* 132: 577-80, Nov 76 (Eng) DL/77FEB477

COMPARATIVE STUDIES OF LIPASE AND PHOSPHOLIPASE A2 ACTING ON SUBSTRATE MONOLAYERS. Verger R, Rietsch J, Van Dam-Mieras MC, de Haas GH *J Biol Chem* 251: 3128-33, 25 May 76 (Eng) *DL/77FEB574

[ENDOCRINE CELLS PRODUCING POLYPEPTIDES AND BIOGENIC AMINES] Bussolati G *Riv Istochim Norm Patol* 18: 95-118, 1974 (Ita) *DL/77FEB679

EFFECTS OF SOMATOSTATIN ON PANCREATIC EXOCRINE FUNCTION. INTERACTION WITH SECRETIN. Deschodt-Lanckman M, Robberecht P, Pector JC, Christophe J *Arch Int Physiol Biochim* 83: 960-1, Dec 75 (Eng) *DL/77FEB705

1.B.3 PANCREAS, PHYSIOLOGY RELATED

POTENTIATION OF GLUCOSE-INDUCED INSULIN RELEASE BY GLUCOSE IN THE ISOLATED PANCREAS OF FED AND FASTED RATS. Efendic S, Cerasi E, Luft R, Gladnikoff G *Diabetes* 25: 949-54, Oct 76 (Eng) DL/77FEB102

EXOCRINE PANCREATIC FUNCTION IN JUVENILE-ONSET DIABETES MELLITUS. Frier BM, Saunders JH, Wormsley KG, Bouchier IA *Gut* 17: 685-91, Sep 76 (Eng) DL/77FEB133

THE CONTRIBUTION OF THE PANCREAS AND THE INTESTINE TO THE REGULATION OF LIPOLYSIS IN BIRDS. 2. IMPAIRED LIPOLYTIC ACTIVITY OF PANCREATIC GLUCAGON IN THE ABSENCE OF EITHER THE PANCREAS OR THE INTESTINE IN THE CHICKEN. Krug E, Gross R, Mialhe P *Horm Metab Res* 8: 345-50, Sep 76 (Eng) DL/77FEB139

IONOPHORE A23187-INDUCED INSULIN SECRETION IN THE ISOLATED, PERFUSED DOG PANCREAS. Conaway HH, Griffey MA, Marks SR, Whitney JE *Horm Metab Res* 8: 351-3, Sep 76 (Eng) DL/77FEB140

PROGRESSIVE ENHANCEMENT IN THE SECRETORY FUNCTIONS OF THE DIGESTIVE SYSTEM OF THE RAT IN THE

COURSE OF COLD ACCLIMATION. Harada E, Kanno T *J Physiol (Lond)* 260: 629-45, Sep 76 (Eng) DL/77FEB211

THE POTENTIATING INFLUENCES OF INSULIN ON PANCREOZYMIN-INDUCED HYPERPOLARIZATION AND AMYLASE RELEASE IN THE PANCREATIC ACINAR CELL. Kanno T, Saito A *J Physiol (Lond)* 261: 505-21, Oct 76 (Eng) DL/77FEB213

GLUCAGON AND GASTRIN RELEASE BY THE ISOLATED PERFUSED DOG STOMACH IN RESPONSE TO ARGININE. Lefebvre PJ, Luyckx AS, Brassinne AH, Nizet AH *Metabolism* 25: 1447-9, Nov 76 (Eng) DL/77FEB294

EXTRAPANCREATIC GLUCAGON IN THE DOG. Vranic M, Engerman R, Doi K, Morita S, Yip CC *Metabolism* 25: 1469-73, Nov 76 (Eng) DL/77FEB302

GASTRIC GLUCAGON SECRETION. Blazquez E, Munoz-Barragan L, Patton GS, Dobbs R, Unger RH *Metabolism* 25: 1475-6, Nov 76 (Eng) DL/77FEB303

ELEVATED GUT GLUCAGON-LIKE IMMUNOREACTIVE MATERIAL IN HUMAN AND EXPERIMENTAL DIABETES AND ITS SUPPRESSION BY SOMATOSTATIN. Wider MD, Matsuyama T, Dunbar JC, Foa PP *Metabolism* 25: 1487-9, Nov 76 (Eng) DL/77FEB306

[PANCREATIC SECRETION IN RATS. A COMPARATIVE STUDY OF BASAL AND STIMULATED SECRETIONS IN ACUTE AND CHRONIC FISTULA CONDITIONS (AUTHORS TRANSL)]. Chariot J, Roze C, de La Tour J, Souchard M, Vaillat C, Debray C *Pathol Biol (Paris)* 24: 457-61, Sep 76 (Fre) DL/77FEB336

INHIBITION OF THE GLUCOSE INDUCED INSULIN RELEASE BY SOMATOSTATIN IN THE ISOLATED PERFUSED RAT PANCREAS. ACTION OF CYCLIC AMP, GLUCAGON AND GLIBENCLAMIDE. Osorio J, Campillo JE, de los Arcos JG, Pages I, Rodriguez E, Marasco M, Melani F *Rev Esp Fisiol* 32: 211-6, Sep 76 (Eng) DL/77FEB372

[MODIFICATION OF INSULIN-SECRETION, INDUCED BY GLUCOSE, OF THE ISOLATION-PERFUSED RAT PANCREAS USING TOLBUTAMIDE, GLUCOSAMINE, DIAZOXIDE, GLUCAGON AND ENDOGENOUS INSULIN] Bierwolf B, Blech W *Acta Biol Med Ger* 35: 583-95, 1976 (Ger) DL/77FEB450

GASTRIC A-CELL FUNCTION IN NORMAL DOGS. Munoz-Barragan L, Blazquez E, Patton GS, Dobbs RE, Unger RH *Am J Physiol* 231: 1057-61, Oct 76 (Eng) DL/77FEB474

EFFECTS OF GROWTH HORMONE-RELEASE INHIBITING HORMONE (GH-RH OR SOMATOSTATIN) ON SECRETORY PROCESSES IN STOMACH AND PANCREAS. PP. 407-12. Albinus M, Case RM, Reed JD, Shaw B, Smith PA, Gomez-Pan A, Hall R, Besser GM, Schally AV *In* Case RM, Goebell H, ed. *Stimulus-secretion coupling in the gastrointestinal tract*. Baltimore, Univ Park Press, 1976. W1 102 5859 1975. (Eng) *DL/77FEB586

1.B.4 PANCREAS, PHARMACOLOGY RELATED

[RELATIONSHIPS BETWEEN THYROTROPIN, GROWTH HORMONE AND INSULIN IN HYPOTHYROIDISM] Vergara Rodriguez J, De Los Monteros Mena AE, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 1021-31, Sep-Oct 76 (Spa) DL/77FEB1

1.C INSULIN

[INTRAVENOUS AND ORAL GLUCOSE: PRODUCTION OF INSULIN AND GROWTH HORMONE IN THE NEWBORN INFANT] Dorantes Alvarez L, De Los Monteros Mena AE, Matus Seucira A, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 979-92, Sep-Oct 76 (Spa) DL/77FEB3

POTENTIATION OF GLUCOSE-INDUCED INSULIN RELEASE BY GLUCOSE IN THE ISOLATED PANCREAS OF FED AND FASTED RATS. Efendic S, Cerasi E, Luft R, Gladnikoff G *Diabetes* 25: 949-54, Oct 76 (Eng) DL/77FEB102

FOETAL RAT PANCREAS IN ORGAN CULTURE. EFFECT OF CORTICOSTERONE CONCENTRATIONS ON THE ACINAR AND ISLET CELL COMPONENTS. McEvoy RC, Hegre OD, Lazarow A *Differentiation* 6: 17-26, 16 Mar 76 (Eng) DL/77FEB125

IONOPHORE A23187-INDUCED INSULIN SECRETION IN THE ISOLATED, PERFUSED DOG PANCREAS. Conaway HH, Griffey MA, Marks SR, Whitney JE *Horm Metab Res* 8: 351-3, Sep 76 (Eng) DL/77FEB140

PROGRESSIVE ENHANCEMENT IN THE SECRETORY FUNCTIONS OF THE DIGESTIVE SYSTEM OF THE RAT IN THE COURSE OF COLD ACCLIMATION. Harada E, Kanno T *J Physiol (Lond)* 260: 629-45, Sep 76 (Eng) DL/77FEB211

THE POTENTIATING INFLUENCES OF INSULIN ON PANCREOZYMIN-INDUCED HYPERPOLARIZATION AND AMYLASE RELEASE IN THE PANCREATIC ACINAR CELL. Kanno T, Saito A *J Physiol (Lond)* 261: 505-21, Oct 76 (Eng) DL/77FEB213

[MODIFICATION OF INSULIN-SECRETION, INDUCED BY GLUCOSE, OF THE ISOLATION-PERFUSED RAT PANCREAS USING TOLBUTAMIDE, GLUCOSAMINE, DIAZOXIDE, GLUCAGON AND ENDOGENOUS INSULIN] Bierwolf B, Blech W *Acta Biol Med Ger* 35: 583-95, 1976 (Ger) DL/77FEB450

[PHARMACOKINETIC OF GLIPENTIDE (UR-661) BY IV. ADMINISTRATION ON HEALTHY AND DIABETIC VOLUNTEERS (AUTHORS TRANSL)] Rimbau Barreras V, Uriach Marsal J, Pou Torello JM *Arch Pharmacol Toxicol* 2: 115-22, Aug 76 (Spa) DL/77FEB491

EFFECTS OF GROWTH HORMONE-RELEASE INHIBITING HORMONE (GH-RIH OR SOMATOSTATIN) ON SECRETORY PROCESSES IN STOMACH AND PANCREAS. PP. 407-12. Albinus M, Case RM, Reed JD, Shaw B, Smith PA, Gomez-Pan A, Hall R, Besser GM, Schally AV *Ino Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract. Baltimore, Univ Park Press, 1976. WI 102 5859 1975. (Eng) *DL/77FEB586*

EFFECTS OF SOMATOSTATIN ON PANCREATIC EXOCRINE FUNCTION. INTERACTION WITH SECRETIN. Deschodt-Lanckman M, Robberecht P, Pector JC, Christophe J *Arch Int Physiol Biochim* 83: 960-1, Dec 75 (Eng) *DL/77FEB705

1.B.5 PANCREAS, PATHOLOGY RELATED

[HYPOGLYCAEMIA (AUTHORS TRANSL)] Uehersax R, Jeannonod D, Meyrat CA *Praxis* 65: 504-9, 27 Apr 76 (Fre) DL/77FEB354

1.B.6 PANCREAS, SURGERY RELATED

1.B.6.1 PANCREAS, TRANSPLANTATION

THE EVOLVING PICTURE OF DIABETES. Eilenberg M *Compr Ther* 2: 9-15, Nov 76 (Eng) DL/77FEB55

STUDIES WITH THE AUTOTRANSPLANTED OVINE PANCREAS: GLUCAGON AND INSULIN SECRETION. Arcus AC, Ellis MJ, Kirk RD, Beaven DW, Donald RA, Hart DS, Holland GW, Redekopp C *Aust J Biol Sci* 29: 223-36, Jul 76 (Eng) DL/77FEB496

[EXPERIMENTAL TRANSPLANTATION OF THE PANCREAS AND DUODENUM] Gutauskas M *Pol Przegl Chir* 48: 481-5, Apr 76 (Pol) *DL/77FEB621

1.B.6.2 PANCREATECTOMY

THE CONTRIBUTION OF THE PANCREAS AND THE INTESTINE TO THE REGULATION OF LIPOLYSIS IN BIRDS. 2. IMPAIRED LIPOLYTIC ACTIVITY OF PANCREATIC GLUCAGON IN THE ABSENCE OF EITHER THE PANCREAS OR THE INTESTINE IN THE CHICKEN. Krug E, Gross R, Mialhe P *Horm Metab Res* 8: 345-50, Sep 76 (Eng) DL/77FEB139

ADRENAL AND LIVER PARTICIPATION IN THE RATS POST-STRESS DIABETIC RESPONSE. Vargas I, Kawada ME *Horm Metab Res* 8: 383-8, Sep 76 (Eng) DL/77FEB144

[TOTAL PANCREATECTOMY (EDITORIAL)] Trede M *Langenbecks Arch Chir* 340: 227-30, 23 Apr 76 (Ger) DL/77FEB254

TOTAL PANCREATECTOMY IN THE TREATMENT OF ACUTE NECROTISING AND HEMORRHAGIC PANCREATITIS. INDICATIONS-TECHNIQUE. Alexandre JH, Chambon H, Assan R *Langenbecks Arch Chir* 340: 231-47, 23 Apr 76 (Eng) DL/77FEB255

PLASMA GLUCAGON IN DIABETES RESULTING FROM TOTAL PANCREATECTOMY [PROCEEDINGS]. Bloom SR, Barnes AJ, Bryant MG, Alberti KG *Metabolism* 25: 1481-2, Nov 76 (Eng) DL/77FEB304

IMMUNOREACTIVE GLUCAGON RESPONSES TO ARGinine IN THREE PANCREATECTOMIZED HUMANS. Palmer JP, Werner PL, Benson JW, Ensinnck JW *Metabolism* 25: 1483-5, Nov 76 (Eng) DL/77FEB305

CHANGES IN CARBOHYDRATE METABOLISM AND ENDOCRINE FUNCTION OF REMNANT PANCREAS AFTER MAJOR PANCREATIC RESECTION. Yasugi H, Mizumoto R, Sakurai H, Honjo I *Am J Surg* 132: 577-80, Nov 76 (Eng) DL/77FEB477

1.C INSULIN

PREMATURE ERUPTION AND MACRODON-TIA ASSOCIATED WITH INSULIN RESISTANT DIABETES AND PINEAL HYPERPLASIA. REPORT OF TWO CASES. Holmes J, Tanner MS *Br Dent J* 141: 280-4, 2 Nov 76 (Eng) DL/77FEB4

POLYMERIZATION PATTERN OF INSULIN AT PH 7.0. Jeffrey PD, Milthorpe BK, Nichol LW *Biochemistry* 15: 4660-5, 19 Oct 76 (Eng) DL/77FEB10

NEUROENDOCRINE STUDIES OF DEPRESSIVE ILLNESS. Sachar EJ, Roffwarg HP, Gruen PH, Altman N, Sassin J *Pharmakopsychiatr Neuropsychopharmacol* 9: 11-7, Jan 76 (Eng) DL/77FEB363

STRUCTURAL STUDIES ON DES-PENTAPEPTIDE (B26-30)-INSULIN. III. STATE OF AGGREGATION, TYROSYL ENVIRONMENT, AND PEPTIDE BACKBONE CONFORMA-

TION IN SOLUTION. Anonymous *Sci Sin* 19: 475-85, Jul-Aug 76 (Eng) DL/77FEB395

STRUCTURAL STUDIES ON DES-PENTAPEPTIDE (B26-30)-INSULIN. IV. A PRELIMINARY INVESTIGATION ON THE HYDROPHOBIC REGION BY EMPLOYING A FLUORESCENCE PROBE, 1-P-TOLUIDINYL-NAPHTHALENE-8-SULFONATE. Anonymous *Sci Sin* 19: 486-96, Jul-Aug 76 (Eng) DL/77FEB396

STRUCTURAL STUDIES ON DES-PENTAPEPTIDE (B26-30)-INSULIN. V. HIGH RESOLUTION NMR STUDIES. Anonymous *Sci Sin* 19: 497-504, Jul-Aug 76 (Eng) DL/77FEB397

HISTOLOGIC CHARACTERISTICS OF INSULINOMAS AND GASTRINOMAS. VALUE OF ARGYROPHILIA, METACHROMASIA, IMMUNOHISTOCHEMISTRY, AND ELECTRON MICROSCOPY FOR THE IDENTIFICATION OF GASTROINTESTINAL AND PANCREATIC ENDOCRINE CELLS AND THEIR TUMORS. Woodtli W, Hedinger C *Virchows Arch [Pathol Anat]* 371: 331-50, 7 Oct 76 (Eng) DL/77FEB425

INSULIN LOSS IN PARENTERAL NUTRITION SYSTEMS. Oh TE, Dyer H, Wall BP, Hall RA, Jellett LB *Anaesth Intensive Care* 4: 342-6, Nov 76 (Eng) DL/77FEB484

1.C.1 INSULIN, BIOCHEMISTRY RELATED

1.C.1.1 INSULIN, ISOLATION AND PURIFICATION

1.C.1.2 INSULIN, ANALYSIS

HUMAN C-PEPTIDE IMMUNOREACTIVITY (CPR) IN BLOOD AND URINE - EVALUATION OF A RADIOIMMUNOASSAY METHOD AND ITS CLINICAL APPLICATIONS. Kuzuya T, Saito T, Yoshida S, Matsuda A *Diabetologia* 12: 511-8, Oct 76 (Eng) DL/77FEB120

RELATIONSHIPS BETWEEN MATERNAL GLUCOSE INTOLERANCE AND NEONATAL BLOOD GLUCOSE. Haworth JC, Dilling LA *J Pediatr* 89: 810-3, Nov 76 (Eng) DL/77FEB207

1.C.1.3 INSULIN, CHEMICAL SYNTHESIS

1.C.1.4 INSULIN, BIOSYNTHESIS

[RELATIONSHIPS BETWEEN THYROTROPIN, GROWTH HORMONE AND INSULIN IN HYPOTHYROIDISM] Vergara Rodriguez J, De Los Monteros Mena AE, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 1021-31, Sep-Oct 76 (Spa) DL/77FEB1

[INTRAVENOUS AND ORAL GLUCOSE: PRODUCTION OF INSULIN AND GROWTH HORMONE IN THE NEWBORN INFANT] Dorantes Alvarez L, De Los Monteros Mena AE, Matus Seucira A, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 979-92, Sep-Oct 76 (Spa) DL/77FEB3

[INSULIN RECEPTORS-A REVIEW (AUTHORS TRANSL)] Freychet P *Diabete Metab* 1: 57-68, Mar 75 (Fre) [82] DL/77FEB89

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabete Metab* 1: 7-11, Mar 75 (Fre) DL/77FEB90

PROINSULIN SYNTHESIS IN ISLETS OF LANGERHANS FROM SPINY MICE (ACOMYS

1.C INSULIN

CAHIRINUS). COMPARISON WITH RATS AND MICE. Trueheart PA, Maldonato A, Kaelin D, Renold AE, Sharp GW *Diabetologia* 12: 463-70, Oct 76 (Eng) DL/77FEB115

EFFECTS OF STREPTOZOTOCIN IN VITRO ON PROINSULIN BIOSYNTHESIS, INSULIN RELEASE AND ATP CONTENT OF ISOLATED RAT ISLETS OF LANGERHANS. Maldonato A, Trueheart PA, Renold AE, Sharp GW *Diabetologia* 12: 471-81, Oct 76 (Eng) DL/77FEB116

CLINICAL CORRELATIONS OF SERUM PROINSULIN-LIKE MATERIAL IN ISLET CELL TUMOURS. Alsever RN, Stjernholm MR, Sussman KE, Mako ME, Rubenstein AH *Diabetologia* 12: 527-30, Oct 76 (Eng) DL/77FEB123

EFFECTS OF IODOACETATE AND FLUORIDE ON ISLATE RESPIRATION AND INSULIN BIOSYNTHESIS. Lin BJ, Henderson MJ, Levine BB, Nagy BR, Nagy EM *Horm Metab Res* 8: 353-8, Sep 76 (Eng) DL/77FEB141

INSULIN BIOSYNTHESIS IN PANCREATIC ISLETS ISOLATED FROM STARVED MICE. Andersson A *Horm Metab Res* 8: 403-4, Sep 76 (Eng) DL/77FEB147

THE EVOLUTIONARY ORIGIN OF PROINSULIN. AMINO ACID SEQUENCE HOMOLOGY WITH THE TRYPSIN-RELATED SERINE PROTEASES DETECTED AND EVALUATED BY NEW STATISTICAL METHODS. de Haen C, Swanson E, Teller DC *J Mol Biol* 106: 639-61, 25 Sep 76 (Eng) DL/77FEB215

[CLINICAL EXPERIENCE WITH THE NEW HUNGARIAN GLIBENCLAMIDE PRODUCT (GILEMAL)] Bela P, Miklos G *Orv Hetil* 117: 2792-4, 14 Nov 76 (Hun) DL/77FEB335

PARTIAL PURIFICATION AND CHARACTERIZATION OF THE MRNA FOR RAT PREPROINSULIN. Duguid JR, Steiner DF, Chick WL *Proc Natl Acad Sci USA* 73: 3539-43, Oct 76 (Eng) DL/77FEB359

INTENSIVE CARE OF THE PREGNANT DIABETIC. Gugliucci CL, O'Sullivan MJ, Opperman W, Gordon M, Stone ML *Am J Obstet Gynecol* 125: 435-41, 15 JUN 76 (Eng) DL/77FEB469

1.C.1.5 INSULIN, METABOLISM

IDENTIFICATION AND CHARACTERIZATION OF THE INSULIN RECEPTOR IN THE R3230AC MAMMARY ADENOCARCINOMA OF THE RAT. Harmon JT, Hilf R *Cancer Res* 36: 3993-4000, Nov 76 (Eng) DL/77FEB37

THE EFFECTS OF MAZINDOL AND 46-034 (SANDOZ) ON GLUCOSE OXIDATION AND INSULIN BINDING BY RAT ISOLATED FAT CELLS. Harrison LC, King-Roach AP *Clin Exp Pharmacol Physiol* 3: 503-6, Sep-Oct 76 (Eng) DL/77FEB46

[INSULIN RECEPTORS-A REVIEW (AUTHORS TRANSL)] Freychet P *Diabete Metab* 1: 57-68, Mar 75 (Fre) [82] DL/77FEB89

POSTMATURITY IN THE RAT: IMPAIRMENT OF INSULIN, GLUCAGON, AND GLYCOGEN STORES. Portha B, Rossetti G, Picon L *Diabetologia* 12: 429-36, Oct 76 (Eng) DL/77FEB110

INSULIN SECRETION AND BIOSYNTHESIS IN SUCROSE FED RATS. Laube H, Schatz H, Nierle C, Fussganger R, Pfeiffer EF *Diabetologia* 12: 441-6, Oct 76 (Eng) DL/77FEB112

FOETAL RAT PANCREAS IN ORGAN CULTURE. EFFECT OF CORTICOSTERONE CONCENTRATIONS ON THE ACINAR AND ISLET CELL COMPONENTS. McEvoy RC,

Hegre OD, Lazarow A *Differentiation* 6: 17-26, 16 Mar 76 (Eng) DL/77FEB125

MITOGEN RECEPTORS IN CHICK EMBRYO FIBROBLASTS. KINETICS, SPECIFICITY, UNMASKING, AND SYNTHESIS OF 125I-INSULIN BINDING SITES. Raizada MK, Perdue JF *J Biol Chem* 251: 6445-55, 25 Oct 76 (Eng) DL/77FEB159

CELL SURFACE RECEPTORS FOR INSULIN AND HUMAN GROWTH HORMONE. EFFECT OF MICROTUBULE AND MICROFILAMENT MODIFIERS. Van Obberghen E, De Meyts P, Roth J *J Biol Chem* 251: 6844-51, 10 Nov 76 (Eng) DL/77FEB161

IN VIVO AND IN VITRO ACTIONS OF SYNTHETIC PART SEQUENCES OF HUMAN PITUITARY GROWTH HORMONE. PP. 41-9. Bornstein J *In0 Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB183*

RADIORECEPTOR ASSAY OF PLASMA NSILAS IN MAN: BASAL AND STIMULATED LEVELS IN NORMAL AND PATHOLOGIC STATES. PP. 127-40. Megyesi K, Kahn CR, Roth J, Gorden P, Neville DM Jr *In0 Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB187*

WEIGHT LOSS IN PATIENTS TREATED LONG-TERM WITH LEVODOPA. METABOLIC ASPECTS. Vardi J, Oberman Z, Rabey I, Streifler M, Ayalon D, Herzberg M *J Neurol Sci* 30: 33-40, Nov 76 (Eng) DL/77FEB201

TRIACETYLATED INSULIN: BIOLOGIC ACTIVITY AND RESISTANCE TO DEGRADATION. Kaplan SA, Morris JW, Davidson MB, Gerschenson LE, Scott M *Metabolism* 25: 1209-16, Nov 76 (Eng) DL/77FEB261

THE MICROANATOMY OF THE ISLETS OF LANGERHANS. Orci L *Metabolism* 25: 1303-13, Nov 76 (Eng) [30] DL/77FEB262

HORMONAL REGULATION OF THE AFFINITY AND CONCENTRATION OF HORMONE RECEPTORS IN TARGET CELLS. DeMeyts P, Kahn CR, Roth J, Bar RS *Metabolism* 25: 1365-70, Nov 76 (Eng) DL/77FEB275

THE ROLE OF GLUCAGON-INSULIN INTERACTIONS IN CONTROL OF GLUCOSE TURNOVER AND ITS SIGNIFICANCE IN DIABETES. Vranic M, Ross G, Doi K, Lickley L *Metabolism* 25: 1375-80, Nov 76 (Eng) DL/77FEB277

PHYSIOLOGY AND PATHOPHYSIOLOGY OF GLUCAGON. Unger RH, Orci L *Physiol Rev* 56: 778-826, Oct 76 (Eng) [164] DL/77FEB365

[HORMONAL AND VITAMIN REGULATION OF GLUCOSE-6-PHOSPHATASES ACTIVITY IN THE LIVER] Vinogradov VV, Mandrik KA, Ostrovskii IuM *Ukr Biokhim Zh* 48: 421-5, Jul-Aug 76 (Rus) DL/77FEB417

[DIAGNOSTIC METHODS IN THE ASSESSMENT OF GASTROINTESTINAL FUNCTION (AUTHORS TRANSL)] Pointer H *Wien Klin Wochenschr* 88: 609-18, 15 Oct 76 (Ger) [48] DL/77FEB433

[PROTEIN HYDROLYSIS BY IMMOBILIZED ENZYMES] Lasch J, Koelsch R, Roth P, Gabert A, Marquardt I, Hanson H *Acta Biol Med Ger* 35: 735-43, 1976 (Ger) DL/77FEB452

SURGICAL REDUCTION OF ADIPOSE TISSUE IN THE MALE SPRAGUE-DAWLEY RAT. Kral JG *Am J Physiol* 231: 1090-6, Oct 76 (Eng) DL/77FEB475

INTERACTION OF CELL-MEMBRANE PROLACTIN RECEPTOR WITH ITS ANTIBODY.

Shiu RP, Friesen HG *Biochem J* 157: 619-26, 1 Sep 76 (Eng) DL/77FEB501

STUDIES ON UREA SYNTHESIS, INSULIN DEGRADATION AND PHAGOCYTOSIS BY ISOLATED RAT KUPFFER CELLS. Wagler SR, Hofmann F, Decker K *Biochem Biophys Res Commun* 72: 448-55, 20 SEP 76 (Eng) DL/77FEB509

1.C.1.6 INSULIN, BLOOD

THE EFFECT OF ORAL RITODRINE ON MATERNAL AND FETAL CARBOHYDRATE METABOLISM. Blouin D, Murray MA, Beard RW *Br J Obstet Gynaecol* 83: 711-5, Sep 76 (Eng) DL/77FEB8

STUDIES ON EXPERIMENTAL HYPOTROPHY IN THE RAT. III. PLASMA INSULIN AND GLUCAGON. Girard JR, Chanez C, Kervran A, Tordet-Caridroit C, Assan R *Biol Neonate* 29: 262-6, 1976 (Eng) DL/77FEB13

INSULIN RESISTANCE AND RELATED ELECTRICAL ACTIVITY OF THE SMALL INTESTINE. Ruckebusch M, Weekes TE *Experientia* 32: 1163-5, 15 Sep 76 (Eng) DL/77FEB76

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL)] Loubatieres A, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77FEB83

INFLUENCE OF METFORMIN ON ARGININE-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ *Diabete Metab* 1: 23-8, Mar 75 (Eng) DL/77FEB84

[PROPORTION OF LOW INSULIN RESPONDERS TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL)] Vague P, Ramahandridona G, Vague J *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77FEB87

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerasi E *Diabete Metab* 1: 51-6, Mar 75 (Eng) DL/77FEB88

FEED-BACK INHIBITION OF INSULIN SECRETION IN SUBJECTS WITH HIGH AND LOW INSULIN RESPONSE TO GLUCOSE. Cerasi E *Diabete Metab* 1: 73-6, Jun 75 (Eng) DL/77FEB94

METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E *Diabete Metab* 1: 77-85, Jun 75 (Eng) DL/77FEB95

GASTRIC INHIBITORY POLYPEPTIDE (GIP) IN MATURITY-ONSET DIABETES MELITUS. Crockett SE, Mazzaferrri EL, Cataland S *Diabetes* 25: 931-5, Oct 76 (Eng) DL/77FEB99

IMPAIRED PLASMA INSULIN RESPONSE TO ARGININE IN HYPERTHYROIDISM. IMPORTANT ROLE OF THE RISE OF BLOOD GLUCOSE IN THE SECOND PHASE OF INSULIN RELEASE INDUCED BY ARGININE. Imura H, Seino Y, Ikeda M, Taminato T, Miyamoto Y *Diabetes* 25: 961-8, Oct 76 (Eng) DL/77FEB104

MODULATION OF FATTY ACID METABOLISM BY GLUCAGON IN MAN. IV. EFFECTS OF A PHYSIOLOGIC HORMONE INFUSION IN NORMAL MAN. Schade DS, Eaton RP *Diabetes* 25: 978-83, Oct 76 (Eng) DL/77FEB107

- DISAPPEARANCE RATE OF ENDOGENOUS HUMAN C-PEPTIDE FROM BLOOD.** Kuzuya T, Matsuda A. *Diabetologia* 12: 519-21, Oct 76 (Eng) DL/77FEB121
- CLINICAL CORRELATIONS OF SERUM PROINSULIN-LIKE MATERIAL IN ISLET CELL TUMOURS.** Alsever RN, Stjernholm MR, Sussman KE, Mako ME, Rubenstein AH. *Diabetologia* 12: 527-30, Oct 76 (Eng) DL/77FEB123
- CLINICAL INVESTIGATION ON ABNORMAL GLUCOSE TOLERANCE IN LIVER CIRRHOSIS.** Kato K, Kikuchi S, Ito M. *Gastroenterol Jpn* 11: 31-7, 1976 (Eng) DL/77FEB129
- [MUSCULAR WORK IN THE THERAPY OF DIABETES MELLITUS]** Berger M. *Fortschr Med* 94: 1553-7, 7 Oct 76 (Ger) DL/77FEB136
- EFFECT OF HYPOPHYSECTOMY AND INSULIN ON LIPOGENESIS IN COCKERELS.** Kompang IP, Gibson WR. *Horm Metab Res* 8: 340-5, Sep 76 (Eng) DL/77FEB138
- HYPOGLYCEMIA AND HYPOINSULINEMIA ASSOCIATED WITH HEPATOMA IN A DOG.** Strombeck DR, Krum S, Meyer D, Kappesser RM. *J Am Vet Med Assoc* 169: 811-2, 15 Oct 76 (Eng) DL/77FEB152
- ESTIMATES OF THE KINETIC PARAMETERS OF GROWTH HORMONE METABOLISM IN FED AND FASTED CALVES AND SHEEP.** Trenkle A. *J Anim Sci* 43: 1035-43, Nov 76 (Eng) DL/77FEB153
- EFFECT OF POTASSIUM AND HYPOMAGNESEMIA ON INSULIN IN THE BOVINE.** Lentz DE, Madsen FC, Miller JK, Hansard SL. *J Anim Sci* 43: 1082-7, Nov 76 (Eng) DL/77FEB154
- INFLUENCE OF DIETARY ENERGY DURING GESTATION ON LAMBING PERFORMANCE, AND GLUCOSE METABOLISM IN FINNCROSS EWES.** Prior RL, Christenson RK. *J Anim Sci* 43: 1114-24, Nov 76 (Eng) DL/77FEB155
- THYROTOXIC PERIODIC PARALYSIS: A PECULIAR CASE WITH UNUSUAL DYSTONIC BEHAVIOR AND VARIABLE RELATIONS OF PARALYSIS TO SERUM POTASSIUM LEVELS.** Kusakabe T, Yoshida M, Nishikawa M. *J Clin Endocrinol Metab* 43: 730-40, Oct 76 (Eng) DL/77FEB167
- SERUM LIPID CHANGES DURING CONTRACEPTIVE ADMINISTRATION IN OBESE WOMEN: RELATION TO SERUM INSULIN LEVELS.** Gersherberg H, Hulse M, Galler M. *J Clin Endocrinol Metab* 43: 861-5, Oct 76 (Eng) DL/77FEB168
- PLASMA SOMATOMEDIN. CLINICAL OBSERVATIONS.** PP. 271-85. Van den Brande JL. In: Pecile A, Muller EE, ed. *Growth hormone and related peptides*. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) [81] DL/77FEB186
- THE SUGAR CONNECTION. REACTIVE HYPOGLYCEMIAS AND IMMUNOREACTIVE INSULIN ASSAY.** Shah S. *J Kans Med Soc* 77: 494, 516, Nov 76 (Eng) DL/77FEB196
- TIME COURSE OF GLUCOSE-INDUCED INCREASE IN PLASMA INSULIN IN THE RAT FETUS IN UTERO.** Derivan A, Girard JR. *J Endocrinol* 70: 519-20, Sep 76 (Eng) DL/77FEB199
- MATERNAL PROTEIN MALNUTRITION DURING GESTATION ALONE AND ITS EFFECTS ON PLASMA INSULIN LEVELS OF THE PREGNANT PIG, ITS FETUSES AND THE DEVELOPING OFFSPRING.** Atinmo T, Baldijao C, Pond WG, Barnes RH. *J Nutr* 106: 1647-53, Nov 76 (Eng) DL/77FEB203
- PLASMA INSULIN LEVELS IN WEANED PIGS FED PROTEIN OR ENERGY RESTRICTED DIETS.** Atinmo T, Baldijao C, Pond WG, Barnes RH. *J Nutr* 106: 1654-8, Nov 76 (Eng) DL/77FEB204
- ADRENAL AND PANCREATIC ENDOCRINE RESPONSES TO HYPOXIA IN THE CONSCIOUS CALF.** Bloom SR, Edwards AV, Hardy RN, Silver M. *J Physiol (Lond)* 261: 271-83, Oct 76 (Eng) DL/77FEB212
- [FUNCTION TEST OF THE HUMAN FETAL PANCREAS (AUTHORS TRANSL)]** Nakai T, Yamada R. *Jpn J Clin Pathol* 24: 673-7, Aug 76 (Jpn) DL/77FEB221
- [CLINICAL STUDIES ON INSULIN RESPONSE TO GLUCOSE TOLERANCE TEST IN PATIENTS WITH PULMONARY TUBERCULOSIS (AUTHORS TRANSL)]** Oe N. *Kekkaku* 51: 313-28, 15 Aug 76 (Jpn) DL/77FEB222
- THE ENDOCRINE SYSTEM IN PATIENTS WITH ACUTE RENAL INSUFFICIENCY.** Kokot F, Kuska J. *Kidney Int [Suppl]* 10: 826-31, Oct 76 (Eng) DL/77FEB223
- HUMAN C-PEPTIDE. PART II: CLINICAL STUDIES.** Beischer W, Heinze E, Keller L, Raptis S, Kerner W, Pfeiffer EF. *Klin Wochenschr* 54: 717-25, 1 Aug 76 (Eng) DL/77FEB228
- INSULIN, GLUCAGON, AMINOACID IMBALANCE, AND HEPATIC ENCEPHALOPATHY.** Soeters PB, Fischer JE. *Lancet* 2: 880-2, 23 Oct 76 (Eng) DL/77FEB245
- METHYLGUANIDINE AND INSULIN RESPONSE IN PATIENTS ON MAINTENANCE HAEMODIALYSIS [LETTER].** Ferrannini E, Navaselski R, Pilo A, Morelli E. *Lancet* 2: 1028-9, 6 Nov 76 (Eng) DL/77FEB252
- [RADIOIMMUNOLOGIC DETERMINATION OF STH, INSULIN, AND C-PEPTIDE. INDICATION, FUNCTIONAL TESTS, INTERPRETATION OF THE FINDINGS]** Schroder KE, Raptis S, Beischer W. *Med Welt* 27: 1720-5, 10 Sep 76 (Ger) DL/77FEB257
- PROPRANOLOL EFFECT ON PLASMA GLUCOSE, FREE FATTY ACID, INSULIN, AND GROWTH HORMONE IN GRAVES DISEASE.** Ortigosa JL, Mendoza F, Argote RM, Garcia G, Cervantes C, Parra A. *Metabolism* 25: 1201-7, Nov 76 (Eng) DL/77FEB260
- EVANESCENT EFFECTS OF HYPO- AND HYPERGLUCAGONEMIA ON BLOOD GLUCOSE HOMEOSTASIS.** Sherwin R, Wahren J, Felig P. *Metabolism* 25: 1381-3, Nov 76 (Eng) DL/77FEB278
- ROLE OF GLUCAGON IN PERINATAL GLUCOSE HOMEOSTASIS.** Sperling MA, Grajwer LA, Leake R, Fisher DA. *Metabolism* 25: 1385-6, Nov 76 (Eng) DL/77FEB279
- DOMINANT INHERITANCE OF LARGE MOLECULAR WEIGHT SPECIES OF GLUCAGON.** Ensink JW, Palmer JP. *Metabolism* 25: 1409-11, Nov 76 (Eng) DL/77FEB285
- GLUCAGON AND LIPOPROTEINS.** Eaton RP. *Metabolism* 25: 1415-7, Nov 76 (Eng) [9] DL/77FEB286
- CONTROL OF HEPATIC PROLIFERATION: A WORKING HYPOTHESIS INVOLVING HORMONES, LIPOPROTEINS, AND NOVEL NUCLEOTIDES.** Koch KS, Leftert HL. *Metabolism* 25: 1419-22, Nov 76 (Eng) DL/77FEB287
- INSULIN, GLUCAGON, LIVER REGENERATION, AND DNA SYNTHESIS.** Bucher NL, Weir GC. *Metabolism* 25: 1423-5, Nov 76 (Eng) DL/77FEB288
- INSULIN, GLUCAGON, AND THE CONTROL OF HEPATIC STRUCTURE, FUNCTION, AND CAPACITY FOR REGENERATION.** Starzl TE, Porter KA, Putnam CW. *Metabolism* 25: 1429-34, Nov 76 (Eng) DL/77FEB290
- CENTRAL NERVOUS SYSTEM-MEDIATED STIMULATION OF GLUCAGON SECRETION IN THE DOG FOLLOWING 2-DEOXYGLUCOSE.** Frohman LA, Nagai K. *Metabolism* 25: 1449-52, Nov 76 (Eng) DL/77FEB295
- NEUROTENSIN AND SUBSTANCE-P: EFFECTS ON PLASMA INSULIN AND GLUCAGON LEVELS.** Brown M, Villarreal J, Vale W. *Metabolism* 25: 1459-61, Nov 76 (Eng) DL/77FEB298
- EFFECTS OF SUBSTANCE-P [PROCEEDINGS].** Sasaki H. *Metabolism* 25: 1463, Nov 76 (Eng) DL/77FEB299
- COMPARISON STUDIES OF NEUROTENSIN AND XENOPSIN UPON PANCREATIC SECRETION IN THE DOG [PROCEEDINGS].** Ishida T, Kawamura K, Goto A, Nishina Y, Takahara J. *Metabolism* 25: 1467, Nov 76 (Eng) DL/77FEB301
- SOMATOSTATIN ANALOGS WITH SELECTED BIOLOGIC ACTIVITIES.** Brown M, Rivier J, Vale W. *Metabolism* 25: 1501-3, Nov 76 (Eng) DL/77FEB309
- METABOLIC EFFECTS OF LONG-TERM SOMATOSTATIN INFUSION IN MAN.** Gerich JE. *Metabolism* 25: 1505-7, Nov 76 (Eng) DL/77FEB310
- THE EFFECTS OF GLUCAGON ADMINISTRATION TO NONDIABETICS AND DIABETICS.** Unger RH, Aydin I, Nakabayashi H, Srikanth CB, Raskin P. *Metabolism* 25: 1523-6, Nov 76 (Eng) DL/77FEB315
- EVIDENCE FOR AN INSULIN-INDEPENDENT ALPHA-CELL ABNORMALITY IN HUMAN DIABETES.** Bennett PH, Aronoff SL, Unger RH. *Metabolism* 25: 1527-9, Nov 76 (Eng) DL/77FEB316
- SERUM INSULIN SECRETION BY ADULT MALAYSIANS.** Jones JJ, Aimalt PP, Owyong LY, Kutty MK. *Med J Malaysia* 30: 285-6, Jun 76 (Eng) DL/77FEB318
- [LEUCINE-SENSITIVE HYPOGLYCAEMIA AND ITS TREATMENT WITH DIAZOXIDE (AUTHORS TRANSL)]** Reich H, Schunke W. *Monatsschr Kinderheilkd* 129: 673-6, Sep 76 (Ger) DL/77FEB321
- INSULIN SECRETION IN MIGRAINE: INFLUENCE ON THE BLOOD LEVELS OF TRYPTOPHAN.** Poloni M, Nappi G, Bono G, Roggi C, Arpesella M, Virgilio P. *Monogr Neural Sci* 3: 67-70, 1976 (Eng) DL/77FEB322
- [CLINICAL EXPERIENCE WITH THE NEW HUNGARIAN GLIBENCLAMIDE PRODUCT (GILEMAL)]** Bela P, Miklos G. *Orv Hetil* 117: 2792-4, 14 Nov 76 (Hun) DL/77FEB335
- [PROBLEMS IN GLYCOREGULATION AND SENESCENCE]** Gommers A, Jeanjean M, Dehez-Delhay M. *Probl Actuels Endocrinol Nutr serie 17: 193-207, 1973 (Fre)* DL/77FEB357
- ARTERIAL-HEPATIC VEIN GLUCOSE DIFFERENCES IN NORMAL AND DIABETIC MAN AFTER A GLUCOSE INFUSION AT REST AND AFTER EXERCISE.** Machlum S, Jervell J, Pruett ED. *Scand J Clin Lab Invest* 36: 415-22, Sep 76 (Eng) DL/77FEB391
- [RELATIONSHIP BETWEEN HORMONE CONCENTRATION IN PERIPHERAL BLOOD IN HYPERTENSION, ARTERIOSCLEROSIS AND OBESITY]** Kokina LP, Lyskova MN, Tkacheva GA, Gabunia RI, Syzgantsva LM. *Ter Arkh* 48: 81-4, 1976 (Rus) DL/77FEB410

1.C INSULIN

EFFECTS OF TRIETHYLENETETRAMINE UPON THE METABOLISM AND TOXICITY OF $^{63}\text{NiCl}_2$ IN RATS. Sunderman FW Jr, Kasprzak K, Horak E, Gitlitz P, Onkelinx C. *Toxicol Appl Pharmacol* 38: 177-88, Oct 76 (Eng) DL/77FEB414

[BLOOD SUGAR AND BLOOD INSULIN AFTER A RAW OR COOKED MEAL IN CONTROL AND DIABETIC SUBJECTS] Havrankova J, Pesant P, Elie R, Matte R. *Union Med Can* 105: 1147-51, Aug 76 (Fre) DL/77FEB421

[HORMONAL DISORDERS IN A PATIENT WITH MORGAGNI-MOREL-STEWART SYNDROME] Hrycek A, Kubek A, Grabski J, Kalina Z. *Wiad Lek* 29: 1673-6, 15 Sep 76 (Pol) DL/77FEB432

[BEHAVIOUR OF SERUM CONCENTRATIONS OF GLUCOSE, IMMUNOREACTIVE INSULIN AND POTASSIUM IONS IN NEWBORNS AFTER LONG TERM OR CRASH TREATMENTS WITH PARTUSISTEN OR PARTUSISTEN IN COMBINATION WITH ISOPTIN (AUTHORS TRANSL.)] Weidinger H, Mohr D, Haller K, Hiltmann WD, Vogel M. *Z Geburtshilfe Perinatol* 180: 258-65, Aug 76 (Ger) DL/77FEB439

INSULIN IN POST-MORTEM BLOOD. A COMMENT. Oksanen A. *Z Rechtsmed* 77: 311-2, 21 Apr 76 (Eng) DL/77FEB443

INSULIN KINETIC, GLUCOSE TOLERANCE, AND LIPID METABOLISM IN GENETICALLY SPONTANEOUS-HYPERTENSIVE RATS. Baumann R, Moritz V, Godicke W, Postnow JW, Ziegler M. *Acta Biol Med Ger* 35: k 33-9, 1976 (Eng) DL/77FEB451

A STUDY OF INSULIN RECEPTORS IN HUMAN MONONUCLEAR LEUCOCYTES. Pedersen O, Beck-Nielsen H. *Acta Endocrinol (Kbh)* 83: 556-64, Nov 76 (Eng) DL/77FEB455

THE INSULIN RECEPTOR IN NORMAL AND OBESE PERSONS. Beck-Nielsen H, Pedersen O, Bagger JP, Sorensen NS. *Acta Endocrinol (Kbh)* 83: 565-75, Nov 76 (Eng) DL/77FEB456

PHYSICAL ACTIVITY AND HORMONES. Adlercreutz H, Harkonen M, Kuoppasalmi K, Kosunen K, Naveri H, Rehnun S. *Adv Cardiol* 18: 144-57, 1976 (Eng) DL/77FEB461

GASTRIC A-CELL FUNCTION IN NORMAL DOGS. Munoz-Barragan L, Blazquez E, Patton GS, Dobbs RE, Unger RH. *Am J Physiol* 231: 1057-61, Oct 76 (Eng) DL/77FEB474

CHANGES IN CARBOHYDRATE METABOLISM AND ENDOCRINE FUNCTION OF REMNANT PANCREAS AFTER MAJOR PANCREATIC RESECTION. Yasugi H, Mizumoto R, Sakurai H, Honjo I. *Am J Surg* 132: 577-80, Nov 76 (Eng) DL/77FEB477

PANCREATIC ISLET CELL CARCINOMA IN A DOG TREATED WITH STREPTOZOTOCIN. Meyer DJ. *Am J Vet Res* 37: 1221-3, Oct 76 (Eng) DL/77FEB487

[THE GLYCOGEN CONTENT OF BLOOD AND UTERINE TISSUE IN WOMEN WITH MYOMA AND ENDOMETRIOSIS (AUTHORS TRANSL.)] Muck BR, Hommel G. *Arch Gynaekol* 221: 129-37, 17 Sep 76 (Ger) DL/77FEB493

1.C.1.7 INSULIN, URINE

RENAL WASTAGE OF INSULIN IN CHILDREN WITH DIABETES MELLITUS. Malone JJ, Root AW. *Diabetes* 25: 989-93, Oct 76 (Eng) DL/77FEB109

THE EXCRETION OF INSULIN IN URINE. E-Allaway RM, Sonne O, Gliemann J, Orskov H, Johansen K. *Diabetologia* 12: 523-6, Oct 76 (Eng) DL/77FEB122

1.C.2 INSULIN, PHYSIOLOGY RELATED

1.C.2.1 INSULIN, PHYSIOLOGY

PRESENT PARADOXES IN THE ENVIRONMENTAL CONTROL OF HEPATIC PROLIFERATION. Leffert HL, Koch KS, Rubalcava B. *Cancer Res* 36: 4250-5, Nov 76 (Eng) DL/77FEB38

MAMMOTROPHIC HORMONES IN RUMINANTS. PP. 422-32. Forsyth IA, Hart IC. In: *Pecile A, Muller EE, ed. Growth hormone and related peptides.* Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) [91] DL/77FEB184

INSULIN, GLUCAGON, AND THE CONTROL OF HEPATIC STRUCTURE, FUNCTION, AND CAPACITY FOR REGENERATION. Starzl TE, Porter KA, Putnam CW. *Metabolism* 25: 1429-34, Nov 76 (Eng) DL/77FEB290

THE BIOLOGY OF GROWTH HORMONE. Kostyo JL, Reagan CR. *Pharmacol Ther* [B] 2: 591-604, 1976 (Eng) [110] DL/77FEB362

HORMONAL RESPONSES AND THEIR EFFECT ON METABOLISM. Wilmore DW. *Surg Clin North Am* 56: 999-1018, Oct 76 (Eng) DL/77FEB407

1.C.2.2 INSULIN, SECRETION

ULTRASTRUCTURE OF B-CELLS OF LANGERHANS ISLETS IN RATS AFTER THE ADMINISTRATION OF L-LEUCINE. Galabova R, Petkov P. *Endocrinol Exp (Bratisl)* 10: 217-23, 1976 (Eng) DL/77FEB67

PANCREATIC BETA CELL REPLICATION: EFFECTS OF HEXOSE SUGARS. King DL, Chick WL. *Endocrinology* 99: 1003-9, OCT 76 (Eng) DL/77FEB68

KINETICS OF INSULIN SECRETION IN CHRONIC PANCREATITIS AND MILD MATURITY ONSET DIABETES. (EVIDENCE FOR GUT HORMONE ACTION BEYOND GLUCORECEPTOR AND CYCLIC ADENOSINE MONOPHOSPHATE MEDIATED INSULIN RELEASE). Botha JL, Vinik AI, Blake KC, Jackson WP. *Eur J Clin Invest* 6: 365-72, 10 Sep 76 (Eng) DL/77FEB72

SOMATOSTATIN AND INSULIN RELEASE FROM ISOLATED RAT PANCREATIC ISLETS STIMULATED BY GLUCOSE. Schauder P, McIntosh C, Arends J, Arnold R, Frerichs H, Creutzfeldt W. *FEBS Lett* 68: 225-7, 1 Oct 76 (Eng) DL/77FEB79

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL.)] Leclercq-Meyer V, Malaisse WJ. *Diabete Metab* 1: 119-22, Jun 75 (Fre) DL/77FEB93

FEED-BACK INHIBITION OF INSULIN SECRETION IN SUBJECTS WITH HIGH AND LOW INSULIN RESPONSE TO GLUCOSE. Cerasi E. *Diabete Metab* 1: 73-6, Jun 75 (Eng) DL/77FEB94

POTENTIATION OF GLUCOSE-INDUCED INSULIN RELEASE BY GLUCOSE IN THE ISOLATED PANCREAS OF FED AND FASTED RATS. Efendic S, Cerasi E, Luft R, Gladnikoff G. *Diabetes* 25: 949-54, Oct 76 (Eng) DL/77FEB102

EFFECTS OF STREPTOZOTOCIN IN VITRO ON PROINSULIN BIOSYNTHESIS, INSULIN RELEASE AND ATP CONTENT OF ISOLATED RAT ISLETS OF LANGERHANS. Mal-

donato A, Trueheart PA, Renold AE, Sharp GW. *Diabetologia* 12: 471-81, Oct 76 (Eng) DL/77FEB116

THE INHIBITION OF INSULIN SECRETION FROM THE PERFUSED RAT PANCREAS AFTER THYROIDINE TREATMENT. Lenzen S, Joost HG, Hasselblatt A. *Diabetologia* 12: 495-500, Oct 76 (Eng) DL/77FEB118

THE ROLE OF CALCIUM IN GLUCAGON RELEASE. INTERACTIONS BETWEEN GLUCOSE AND CALCIUM. Leclercq-Meyer V, Marchand J, Malaisse WJ. *Diabetologia* 12: 531-8, Oct 76 (Eng) DL/77FEB124

IS DIABETES A FORM OF ACCELERATED AGING? Kent S. *Geriatrics* 31: 140, 145, 149-51, Nov 76 (Eng) DL/77FEB131

EVIDENCE FOR A HYPOTHYSEAL FACTOR THAT STIMULATES INSULIN SECRETION BY THE PANCREAS (INSULOTROPINE). Chieri RA, Basabe JC, Farina JM. *Horm Metab Res* 8: 329-32, Sep 76 (Eng) DL/77FEB137

IONOPHORE A23187-INDUCED INSULIN SECRETION IN THE ISOLATED, PERFUSED DOG PANCREAS. Conaway HH, Griffey MA, Marks SR, Whitney JE. *Horm Metab Res* 8: 351-3, Sep 76 (Eng) DL/77FEB140

CELL SURFACE RECEPTORS FOR INSULIN AND HUMAN GROWTH HORMONE. EFFECT OF MICROTUBULE AND MICROFILAMENT MODIFIERS. Van Obberghen E, De Meyts P, Roth J. *J Biol Chem* 251: 6844-51, 10 Nov 76 (Eng) DL/77FEB161

INSULIN RELEASE AND THE MOVEMENTS OF CALCIUM IN PANCREATIC ISLETS. PP. 211-26. Malaisse WJ, Herchuelz A, Levy J, Somers G, Devis G. In: *Carafoli E, et al., ed. Calcium transport in contraction and secretion.* Amsterdam, North-Holland, 1975. QV 276 161c 1975. (Eng) DL/77FEB179

GROWTH HORMONE AND INSULIN SECRETION. PP. 116-26. Bennett LL, Curry DL. In: *Pecile A, Muller EE, ed. Growth hormone and related peptides.* Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB180

SOMATOSTATIN, A HORMONE OF THE ALPHA 1-CELLS OF THE PANCREATIC ISLETS AND ITS INFLUENCE ON THE SECRETION OF INSULIN AND GLUCAGON. PP. 216-21. Efendic S, Hokfelt T, Luft R. In: *Pecile A, Muller EE, ed. Growth hormone and related peptides.* Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB190

IA STUDY OF ROENTGENOLOGIC AORTIC CALCIFICATION, GLUCOSE TOLERANCE, AND INSULIN SECRETORY RESPONSE (AUTHORS TRANSL.) Tanaka T, Seki A, Fujii J, Kuzuya N. *Jpn Soc Intern Med* 65: 569-74, 10 Jun 76 (Jpn) DL/77FEB195

CONTROL OF GLUCAGON SECRETION BY NUTRIENTS IN VITRO. Matschinsky FM, Pagliara AS. *Metabolism* 25: 1435-6, Nov 76 (Eng) DL/77FEB291

INTRAISLET NEGATIVE INSULIN-GLUCAGON FEEDBACK. Samols E, Harrison J. *Metabolism* 25: 1443-7, Nov 76 (Eng) DL/77FEB293

NEUROHUMORAL REGULATION OF THE PANCREATIC ISLET A AND B CELLS. Porte D Jr, Smith PH, Ensink JW. *Metabolism* 25: 1453-6, Nov 76 (Eng) [21] DL/77FEB296

EFFECTS OF NEUROTENSIN AND SUBSTANCE P ON INSULIN AND GLUCAGON RELEASE BY THE PERFUSED DOG PANCREAS [PROCEEDINGS]. Patton G, Brown M, Dobbs

1.C INSULIN

- R, Vale W, Unger RH *Metabolism* 25: 1465, Nov 76 (Eng) DL/77FEB300
- REMARKABLE POTENCY OF SOMATOSTATIN AS A GLUCAGON SUPPRESSANT.** Samols E, Harrison J *Metabolism* 25: 1495-7, Nov 76 (Eng) DL/77FEB307
- CARBOHYDRATE TOLERANCE AND OBESITY.** Bredihai HD *Med J Aust* 1: 9-10, 19 Jun 76 (Eng) DL/77FEB319
- CALCIUM-ANTAGONISTS AND ISLET FUNCTION. VI. EFFECTS OF BARIUM.** Somers G, Devis G, van Obberghen E, Malaisse WJ *Pflugers Arch* 365: 21-8, 3 Sep 76 (Eng) DL/77FEB339
- INSULIN RELEASE AND PHOSPHATE ION EFFLUX FROM RAT PANCREATIC ISLETS INDUCED BY L-LEUCINE AND ITS NON-METABOLIZABLE ANALOGUE, 2-AMINO-BICYCLO[2.2.1]HEPTANE-2-CARBOXYLIC ACID.** Freinkel N, Younsi CE, Dawson RMC *Proc Natl Acad Sci USA* 73: 3403-7, Oct 76 (Eng) DL/77FEB358
- INHIBITION OF THE GLUCOSE INDUCED INSULIN RELEASE BY SOMATOSTATIN IN THE ISOLATED PERFUSED RAT PANCREAS. ACTION OF CYCLIC AMP, GLUCAGON AND GLIBENCLAMIDE.** Osorio J, Campillo JE, de los Arcos JG, Pages I, Rodriguez E, Marasco M, Melani F *Rev Esp Fisiol* 32: 211-6, Sep 76 (Eng) DL/77FEB372
- [FATTY ACID PATTERNS AND GLUCOSE TOLERANCE IN HUNTINGTONS CHOREA (AUTHORS TRANSL.)]** Schubotz R, Hausmann L, Kaffarnik H, Zehner J, Oepen H *Res Exp Med (Berl)* 167: 203-15, 2 Jul 76 (Ger) DL/77FEB376
- EFFECT OF HEPARIN ON INSULIN SECRETION IN VIVO AND IN VITRO.** Orosz L *Res Exp Med (Berl)* 167: 239-54, 2 Jul 76 (Eng) DL/77FEB377
- [CURRENT STATUS OF THE PROBLEM OF SECURING THE ENERGY REQUIREMENTS OF A PATIENT BY THE PARENTERAL ROUTE]** Kremer IuN, Vitolina SP *Vopr Pitan* 7-16, Sep-Oct 76 (Rus) [101] DL/77FEB427
- [MODIFICATION OF INSULIN-SECRETION, INDUCED BY GLUCOSE, OF THE ISOLATION-PERFUSED RAT PANCREAS USING TOLBUTAMIDE, GLUCOSAMINE, DIAZOXIDE, GLUCAGON AND ENDOGENOUS INSULIN]** Bierwolf B, Blech W *Acta Biol Med Ger* 35: 583-95, 1976 (Ger) DL/77FEB450
- EXTRACELLULAR CALCIUM AND ADRENERGIC AND CHOLINERGIC EFFECTS ON ISLET BETA-CELL FUNCTION.** Burr IM, Slonim AE, Burke V, Fletcher T *Am J Physiol* 231: 1246-9, Oct 76 (Eng) DL/77FEB476
- STUDIES WITH THE AUTOTRANSPLANTED OVINE PANCREAS: GLUCAGON AND INSULIN SECRETION.** Arcus AC, Ellis MJ, Kirk RD, Beaven DW, Donald RA, Hart DS, Holland GW, Redekopp C *Aust J Biol Sci* 29: 223-36, Jul 76 (Eng) DL/77FEB496
- INOSINE-STIMULATED INSULIN RELEASE AND METABOLISM OF INOSINE IN ISOLATED MOUSE PANCREATIC ISLETS.** Capito K, Hedeskov CJ *Biochem J* 158: 335-40, 15 Aug 76 (Eng) DL/77FEB505
- METABOLIC REQUIREMENTS FOR MELANOPHORE-STIMULATING HORMONE (MSH) SECRETION.** Hadley ME, Bower SA *Gen Comp Endocrinol* 28: 118-30, Feb 76 (Eng) *DL/77FEB558
- CHARACTERIZATION OF (3H)CYTOTHALASIN B BINDING TO THE FAT CELL PLASMA MEMBRANE.** Czech MP *J Biol Chem* 251: 2905-10, 25 May 76 (Eng) *DL/77FEB570
- 1.C.3 INSULIN, PHARMACOLOGY RELATED**
- 1.C.3.1 INSULIN, PHARMACODYNAMICS**
- STUDIES WITH FLUTIOREX, A NEW ANORECTIC DRUG, ON GLUCOSE UPTAKE INTO HUMAN ISOLATED SKELETAL MUSCLE.** Kirby MJ, Carageorgiu-Markomihalakis H, Turner P *Br J Clin Pharmacol* 2: 541-2, Dec 75 (Eng) DL/77FEB6
- [ANTAGONISM IN THE ACTION OF HYDROCORTISONE AND INSULIN IN VIVO ON ENZYMES OF PYRUVATE AND MALATE METABOLISM IN ADIPOSE TISSUE]** Ilin VS, Vasileva LE, Tokhadze OG *Biokhimiia* 41: 1646-50, Sep 76 (Rus) DL/77FEB12
- EFFECT OF SOME RECEPTOR ANTAGONISTS ON FENFLURAMINE-INDUCED GLUCOSE UPTAKE INTO THE ISOLATED RAT HEMIDIAPHRAGM [PROCEEDINGS].** Kirby MJ, Turner P *Br J Pharmacol* 58: 286p-287p, Oct 76 (Eng) DL/77FEB18
- THE ROLE OF NERVE-GROWTH FACTOR (NGF) IN THE CENTRAL NERVOUS SYSTEM.** Freed WJ *Brain Res Bull* 1: 393-412, Jul-Aug 76 (Eng) [243] DL/77FEB33
- LACK OF A SIGNIFICANT PROTECTIVE EFFECT OF AUGMENTED CIRCULATING GLUCOSE ON THE ISCHEMIC MYOCARDIUM.** BJ Spath JA, Ogletree ML, Lefler AM *Can J Physiol Pharmacol* 54: 423-9, Aug 76 (Eng) DL/77FEB36
- IDENTIFICATION AND CHARACTERIZATION OF THE INSULIN RECEPTOR IN THE R3230AC MAMMARY ADENOCARCINOMA OF THE RAT.** Harmon JT, Hill R *Cancer Res* 36: 3993-4000, Nov 76 (Eng) DL/77FEB37
- GLUCOSE UPTAKE BY NORMAL HUMAN BREAST TISSUE IN ORGAN CULTURE. INFLUENCE OF INSULIN AND OTHER ADDITIVES.** van Bogaert LJ *Cell Tissue Res* 171: 535-41, 1 Sep 76 (Eng) DL/77FEB40
- SMALL CIRCULAR DNA IN DROSOPHILA MELANOGASTER.** Stanfield S, Helinski DR *Cell* 9: 333-45, Oct 76 (Eng) DL/77FEB41
- THE LEVEL AND COMPOSITION OF SERUMUCOID AND NONDIALYSABLE SERUM SUGAR-PEPTIDE FRACTION COMPARED WITH THE ACTIVITY OF GALACTOSYL TRANSFERASE (EC 2.4.1.38) OF LIVER GOLGI MEMBRANES IN INSULIN-TREATED RATS.** Guzdek A, Kordowiak A, Sarnecka-Keller M *Clin Chim Acta* 72: 393-9, 1 Nov 76 (Eng) DL/77FEB43
- STUDIES ON GLYCOGENOLYSIS IN CARP LIVER: EVIDENCE FOR AN AMYLASE PATHWAY FOR GLYCOGEN BREAKDOWN.** Murat JC *Comp Biochem Physiol [B]* 55: 461-5, 1976 (Eng) DL/77FEB58
- THE EFFECT OF CHANGES IN BLOOD GLUCOSE ON THE MOTILITY OF THE DUODENUM IN SHEEP.** Mostaghni K, Howard BR *Cornell Vet* 66: 598-603, Oct 76 (Eng) DL/77FEB59
- BEHAVIOR OF THE LYSOSOMAL SYSTEM DURING ORGAN PERFUSION. AN INQUIRY INTO THE MECHANISM OF HEPATIC PROTEOLYSIS.** Mortimore GE, Ward WF *Front Biol* 45: 157-84, 1976 (Eng) [65] DL/77FEB80
- METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET.** Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E *Diabete Metab* 1: 77-83, Jun 75 (Eng) DL/77FEB95
- EFFECTS OF ACUTE INSULIN WITHDRAWAL AND ADMINISTRATION ON PLASMA GLUCAGON RESPONSES TO INTRAVENOUS ARGININE IN INSULIN-DEPENDENT DIABETIC SUBJECTS.** Gerich JE, Lorenzi M, Tsalikian E, Bohannon NV, Schneider V, Karam JH, Forsham PH *Diabetes* 25: 955-60, Oct 76 (Eng) DL/77FEB103
- EFFECT OF HYPOPHYSECTOMY AND INSULIN ON LIPOGENESIS IN COCKERELS.** Kompang IP, Gibson WR *Horm Metab Res* 8: 340-5, Sep 76 (Eng) DL/77FEB138
- CENTRALLY MEDIATED HYPOCHOLESTEROLAEMIC RESPONSE OF INSULIN IN DOGS.** Barthwal KC, Singh KN, Bapat V, Bapat SK *Indian J Physiol Pharmacol* 20: 136-40, Jul-Sep 76 (Eng) DL/77FEB150
- INDUCTION OF ORNITHINE DECARBOXYLASE IN CULTURED MOUSE L CELLS. I. EFFECTS OF CELLULAR GROWTH, HORMONES, AND ACTINOMYCIN D.** Yamasaki Y, Ichihara A *J Biochem (Tokyo)* 80: 557-62, Sep 76 (Eng) DL/77FEB157
- MITOGEN RECEPTORS IN CHICK EMBRYO FIBROBLASTS. KINETICS, SPECIFICITY, UNMASKING, AND SYNTHESIS OF 125I-INSULIN BINDING SITES.** Raizada MK, Perdue JF *J Biol Chem* 251: 6445-55, 25 Oct 76 (Eng) DL/77FEB159
- INSULIN STIMULATION OF HEART GLYCOGEN SYNTHASE D PHOSPHATASE (PROTEIN PHOSPHATASE).** Nuttali FQ, Gannon MC, Corbett VA, Wheeler MP *J Biol Chem* 251: 6724-9, 10 Nov 76 (Eng) DL/77FEB160
- STIMULATION OF DNA SYNTHESIS, CELL MULTIPLICATION, AND ORNITHINE DECARBOXYLASE IN 3T3 CELLS BY MULTIPICATION STIMULATING ACTIVITY (MSA).** Nissley SP, Passamani J, Short P *J Cell Physiol* 89: 393-402, NOV 76 (Eng) DL/77FEB163
- STUDIES OF HUMAN DIPLOID FIBROBLAST GROWTH. I. RESPONSES OF NORMAL AND HYPOPHYSECTOMIZED CELLS TO FIBROBLAST GROWTH FACTOR, INSULIN, AND SERUM.** Jones KL, Addison J *J Clin Endocrinol Metab* 43: 721-9, Oct 76 (Eng) DL/77FEB166
- REGULATION OF SOMATOMEDIN GENERATION.** PP. 169-77. Daughaday WH, Phillips LS, Herington AC *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975.* (Eng) DL/77FEB188
- STUDIES ON THE NATURE OF PLASMA GROWTH HORMONE.** PP. 75-83. Ellis S, Grindland RE, Reilly TJ, Yang SH *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975.* (Eng) DL/77FEB191
- PROGRESSIVE ENHANCEMENT IN THE SECRETORY FUNCTIONS OF THE DIGESTIVE SYSTEM OF THE RAT IN THE COURSE OF COLD ACCLIMATION.** Harada E, Kanno T *J Physiol (Lond)* 260: 629-45, Sep 76 (Eng) DL/77FEB211
- THE POTENTIATING INFLUENCES OF INSULIN ON PANCREOZYMIN-INDUCED HYPERPOLARIZATION AND AMYLASE RELEASE IN THE PANCREATIC ACINAR CELL.** Kanno T, Saito A *J Physiol (Lond)* 261: 505-21, Oct 76 (Eng) DL/77FEB213

1.C INSULIN

- TRIACETYLATED INSULIN: BIOLOGIC ACTIVITY AND RESISTANCE TO DEGRADATION.** Kaplan SA, Morris JW, Davidson MB, Gerschenson LE, Scott M *Metabolism* 25: 1209-16, Nov 76 (Eng) DL/77FEB261
- POSSIBLE ROLE OF PYRUVATE KINASE IN THE HORMONAL CONTROL OF DIHYDROXYACETONE GLUCONEOGENESIS IN ISOLATED HEPATOCYTES.** Pilakis SJ, Claus TH, Riou JP, Park CR *Metabolism* 25: 1355-60, Nov 76 (Eng) DL/77FEB273
- AN IMPORTANT ROLE FOR GLUCAGON IN THE REGULATION OF GLUCOSE PRODUCTION IN VIVO.** Liljenquist JE, Chiasson JL, Cherrington AD, Keller U, Jennings AS, Bomboy JD, Lacy WW *Metabolism* 25: 1371-3, Nov 76 (Eng) DL/77FEB276
- THE ROLE OF GLUCAGON-INSULIN INTERACTIONS IN CONTROL OF GLUCOSE TURNOVER AND ITS SIGNIFICANCE IN DIABETES.** Vranic M, Ross G, Doi K, Lickley I *Metabolism* 25: 1375-80, Nov 76 (Eng) DL/77FEB277
- EVANESCENT EFFECTS OF HYPO- AND HYPERGLUCAGONEMIA ON BLOOD GLUCOSE HOMEOSTASIS.** Sherwin R, Wahren J, Felig P *Metabolism* 25: 1381-3, Nov 76 (Eng) DL/77FEB278
- INSULIN, GLUCAGON, LIVER REGENERATION, AND DNA SYNTHESIS.** Bucher NL, Weir GC *Metabolism* 25: 1423-5, Nov 76 (Eng) DL/77FEB288
- INSULIN AND GLUCAGON AS MODIFIERS OF DNA SYNTHESIS IN THE REGENERATING RAT LIVER.** Price JB Jr *Metabolism* 25: 1427-8, Nov 76 (Eng) DL/77FEB289
- INSULIN, GLUCAGON, AND THE CONTROL OF HEPATIC STRUCTURE, FUNCTION, AND CAPACITY FOR REGENERATION.** Starzl TE, Porter KA, Putnam CW *Metabolism* 25: 1429-34, Nov 76 (Eng) DL/77FEB290
- EXTRAPANCREATIC GLUCAGON IN THE DOG.** Vranic M, Engerman R, Doi K, Morita S, Yip CC *Metabolism* 25: 1469-73, Nov 76 (Eng) DL/77FEB302
- GASTRIC GLUCAGON SECRETION.** Blazquez E, Munoz-Barragan L, Patton GS, Dobbs R, Unger RH *Metabolism* 25: 1475-6, Nov 76 (Eng) DL/77FEB303
- STIMULATION OF PANCREATIC IMMUNOREACTIVE SOMATOSTATIN (IRS) RELEASE BY GLUCAGON [PROCEEDINGS].** Patton GS, Dobbs R, Orci L, Vale W, Unger RH *Metabolism* 25: 1499, Nov 76 (Eng) DL/77FEB308
- ALPHA CELL FUNCTION IN DIABETES MELITUS.** Gerich JE *Metabolism* 25: 1513-6, Nov 76 (Eng) DL/77FEB312
- REGULATION OF GLUCAGON SECRETION OF THE DIABETIC PANCREAS IN VITRO [PROCEEDINGS].** Matschinsky FM, Pagliara AS *Metabolism* 25: 1517, Nov 76 (Eng) DL/77FEB313
- THE EFFECTS OF ACUTE AND CHRONIC INSULIN ADMINISTRATION ON PLASMA IRI LEVELS IN HUMAN DIABETES.** Raskin P, Aydin I, Unger RH *Metabolism* 25: 1531-3, Nov 76 (Eng) DL/77FEB317
- DIABETIC POLYNEUROPATHY: THE IMPORTANCE OF INSULIN DEFICIENCY, HYPERGLYCEMIA AND ALTERATIONS IN MYOINOSITOL METABOLISM IN ITS PATHOGENESIS.** Winegrad AI, Greene DA *N Engl J Med* 295: 1416-21, 16 Dec 76 (Eng) DL/77FEB326
- [PANCREATIC SECRETION IN RATS. A COMPARATIVE STUDY OF BASAL AND STIMULATED SECRETIONS IN ACUTE AND CHRONIC FISTULA CONDITIONS (AUTHORS TRANSL)].** Chariot J, Roze C, de La Tour J, Souchart M, Vaillat C, Debray C *Pathol Biol (Paris)* 24: 457-61, Sep 76 (Fre) DL/77FEB336
- [PROBLEMS IN GLYCOREGULATION AND SENESCENCE]** Gommers A, Jeanjean M, Dehez-Delhay M *Probl Actuels Endocrinol Nutr serie 17*: 193-207, 1973 (Fre) DL/77FEB357
- HORMONAL STIMULATION OF DNA SYNTHESIS IN PRIMARY CULTURES OF ADULT RAT HEPATOCYTES.** Richman RA, Claus TH, Pilakis SJ, Friedman DL *Proc Natl Acad Sci USA* 73: 3589-93, Oct 76 (Eng) DL/77FEB360
- STUDIES ON INSULIN ACTION. V. STRUCTURAL REQUIREMENTS OF PRIMERS FOR SUBSEQUENT ACCUMULATION OF D-GLUCOSE AT 0 DEGREES C IN INSULINIZED FROG MUSCLES.** Ling GN, Will S *Physiol Chem Phys* 8: 115-24, 1976 (Eng) DL/77FEB364
- MUSCULAR AND SEROSAL EFFECTS OF INSULIN ON ION CONTENTS OF THE FROG URINARY BLADDER.** Janacek K, Rybova R, Slavikova M *Physiol Bohemoslov* 25: 385-7, 1976 (Eng) DL/77FEB367
- [MUSCLE METABOLISM OF GLUCOSE, LACTATE, FREE FATTY ACIDS, AND GLYCEROL AT REST AND DURING ELECTRICALLY STIMULATED EXERCISE IN THE PERFUSED RAT HIND LIMB (AUTHORS TRANSL)].** Dieterle C, Gartner R, Dieterle P *Res Exp Med (Berl)* 168: 23-33, 22 Jul 76 (Ger) DL/77FEB378
- [ANALYSIS OF BREAST CELL DIFFERENTIATION IN TISSUE CULTURE UNDER THE INFLUENCE OF HORMONES]** Kalantar IL, Khrestaleva GI, Nechipurenko LV, Medvedev IK *Tsitologiya* 18: 1014-9, Aug 76 (Rus) DL/77FEB416
- [MODIFICATION OF INSULIN-SECRETION, INDUCED BY GLUCOSE, OF THE ISOLATION-PERFUSED RAT PANCREAS USING TOLBUTAMIDE, GLUCOSAMINE, DIAZOXIDE, GLUCAGON AND ENDOGENOUS INSULIN]** Bierwolf B, Blech W *Acta Biol Med Ger* 35: 583-95, 1976 (Ger) DL/77FEB450
- FACTORS CONTROLLING PROTEIN SYNTHESIS IN HEART MUSCLE.** Hjalmarson AC, Isaksson O, Kallfelt BJ *Adv Cardiol* 18: 57-80, 1976 (Eng) DL/77FEB463
- REGULATION BY LIPOLYTIC AND ANTILIPOLYTIC COMPOUNDS OF THE PHOSPHORYLATION OF SPECIFIC PROTEINS IN ISOLATED INTACT FAT CELLS.** Forn J, Greengard P *Arch Biochem Biophys* 176: 721-33, Oct 76 (Eng) DL/77FEB488
- STUDIES WITH THE AUTOTRANSPLANTED OVINE PANCREAS: GLUCAGON AND INSULIN SECRETION.** Arcus AC, Ellis MJ, Kirk RD, Beaven DW, Donald RA, Hart DS, Holland GW, Redekopp C *Aust J Biol Sci* 29: 223-36, Jul 76 (Eng) DL/77FEB496
- GROWTH HORMONE IN EXERCISE: COMPARISON OF PHYSIOLOGICAL AND PHARMACOLOGICAL STIMULI.** Sutton J, Lazarus L *Biochem J* 157: 523-7, 1 Sep 76 (Eng) DL/77FEB498
- DRUG MODIFICATION OF HYPOTHERMIA INDUCED BY CNS GLUCOPENIA IN THE MOUSE.** Mager M, Robinson S, Freinkel N *Biochem J* 157: 559-64, 1 Sep 76 (Eng) DL/77FEB499
- THE EFFECT OF GLUCOSE, INSULIN AND ADRENALINE ON GLYCEROL METABOLISM IN VITRO IN RAT ADIPOSE TISSUE.** Dominguez MC, Herrera E *Biochem J* 158: 183-90, 15 Aug 76 (Eng) DL/77FEB503
- GLUCOSE METABOLISM IN PERFUSED SKELETAL MUSCLE. EFFECTS OF STARVATION, DIABETES, FATTY ACIDS, ACETOACETATE, INSULIN AND EXERCISE ON GLUCOSE UPTAKE AND DISPOSITION.** Berger M, Hagg SA, Goodman MN, Ruderman NB *Biochem J* 158: 191-202, 15 Aug 76 (Eng) DL/77FEB504
- EFFECTS OF HORMONES ON PROTEIN AND AMINO ACID METABOLISM IN MAMMARY-GLAND EXPLANTS OF MICE.** Anderson LD, Rillema JA *Biochem J* 158: 355-9, 15 Aug 76 (Eng) DL/77FEB506
- INSULIN DECREASES BACTERIAL MEMBRANE FLUIDITY. IS IT A GENERAL EVENT IN ITS ACTION?** Moreno H, Farias RN *Biochem Biophys Res Commun* 72: 74-80, 7 Sep 76 (Eng) DL/77FEB508
- CYCLIC NUCLEOTIDE-, PYRUVATE- AND HORMONE-INDUCED CHANGES IN PYRUVATE KINASE ACTIVITY IN ISOLATED RAT HEPATOCYTES.** van Berkel TJ, Kruijt JK, Koster JF, Hulsman WC *Biochem Biophys Res Commun* 72: 917-25, 4 Oct 76 (Eng) DL/77FEB511

1.C.3.2 INSULIN, ANTAGONISTS AND INHIBITORS

INHIBITION OF THE GLUCOSE INDUCED INSULIN RELEASE BY SOMATOSTATIN IN THE ISOLATED PERFUSED RAT PANCREAS. ACTION OF CYCLIC AMP, GLUCAGON AND GLIBENCLAMIDE. Osorio J, Campillo JE, de los Arcos JG, Pages I, Rodriguez E, Marasco M, Melani F *Rev Esp Fisiol* 32: 211-6, Sep 76 (Eng) DL/77FEB372

1.C.3.3 INSULIN, ADVERSE EFFECTS

INFLUENCE OF POLARIZING INFUSIONS ON ANTIARRHYTHMIC EFFECTS OF BETA-BLOCKERS. Rossi P, Araldi D, Cernigliaro C, D'Aulerio M, Carcano G *G Ital Cardiol* 6: 620-7, 1976 (Eng) DL/77FEB126

[DRUG-INDUCED HYPOGLYCEMIA IN DIABETIC PATIENTS] Gay G, Debry G *Nouv Presse Med* 5: 2156-8, 9 Oct 76 (Fre) DL/77FEB344

[INSULIN HYPOGLYCEMIA DURING TREATMENT OF DIABETES MELLITUS IN CHILDREN] Jokanovic R, Nikezic M *Srp Arh Celok Lek* 104: 49-56, Jan 76 (Ser) DL/77FEB404

[BETA RECEPTOR BLOCKING AGENTS, INSULIN AND HYPOGLYCEMIA] Froland A *Ugeskr Laeger* 138: 2970, 15 Nov 76 (Dan) DL/77FEB420

1.C.4 HYPERINSULINISM

CLINICAL AND METABOLIC STUDIES IN CHILDREN OF DIABETIC-MOTHERS. Amendt P, Michaelis D, Hildmann W *Endokrinologie* 67: 351-61, 1976 (Eng) DL/77FEB70

INSULIN RESISTANCE AND RELATED ELECTRICAL ACTIVITY OF THE SMALL INTESTINE. Ruckebusch M, Weekes TE *Experientia* 32: 1163-5, 15 Sep 76 (Eng) DL/77FEB76

HYPERINSULINEMIA AND HYPERGLUCAGONEMIA FOLLOWING PANCREATIC ISLET TRANSPLANTATION IN DIABETIC

1.D GLUCAGON

- RATS. Weber CJ, Hardy MA, Lerner RL, Felig P, Reemtsma K *Diabetes* 25: 944-8, Oct 76 (Eng) DL/77FEB101
- [LEUCINE-SENSITIVE HYPOGLYCAEMIA AND ITS TREATMENT WITH DIAZOXIDE (AUTHORS TRANSL.)] Reich H, Schunke W *Monatsschr Kinderheilkd* 129: 673-6, Sep 76 (Ger) DL/77FEB321
- TUMORS OF THE ISLETS OF LANGERHANS. Zollinger RM, Mazzaferri EL *Adv Surg* 10: 137-76, 1976 (Eng) [73] DL/77FEB464
- ## 1.C.4.1 INSULIN COMA
- ## 1.C.5 INSULIN ANTIBODIES
- INSULIN RESISTANT DIABETES MELLITUS WITHOUT THE PRESENCE OF INSULIN ANTIBODIES. A CASE REPORT. Pav J, Sramkova J, Matys Z *Endokrinologie* 67: 373-6, 1976 (Eng) DL/77FEB71
- RENAL WASTAGE OF INSULIN IN CHILDREN WITH DIABETES MELLITUS. Malone JJ, Root AW *Diabetes* 25: 989-93, Oct 76 (Eng) DL/77FEB109
- [EXPERIENCES WITH MONOCOMPONENT (MC) INSULIN IN THE TREATMENT OF JUVENILE DIABETES] Aronson S, Engleson G *Lakartidningen* 73: 3982-4, 10 Nov 76 (Swe) DL/77FEB243
- INSULIN IN POST-MORTEM BLOOD. A COMMENT. Oksanen A *Z Rechtsmed* 77: 311-2, 21 Apr 76 (Eng) DL/77FEB443
- ## 1.C.6 INSULIN RESISTANCE
- INSULIN RESISTANT DIABETES MELLITUS WITHOUT THE PRESENCE OF INSULIN ANTIBODIES. A CASE REPORT. Pav J, Sramkova J, Matys Z *Endokrinologie* 67: 373-6, 1976 (Eng) DL/77FEB71
- INSULIN RESISTANCE AND RELATED ELECTRICAL ACTIVITY OF THE SMALL INTESTINE. Ruckebusch M, Weekes TE *Experientia* 32: 1163-5, 15 Sep 76 (Eng) DL/77FEB76
- THE METABOLIC FATE OF PLASMA LIPOPROTEINS IN NORMAL SUBJECTS AND IN PATIENTS WITH INSULIN RESISTANCE AND ENDOGENOUS HYPERTRIGLYCERIDAEMIA. Kissebah AH, Alfarsi S, Adams PW, Wynn V *Diabetologia* 12: 501-9, Oct 76 (Eng) DL/77FEB119
- CARBOHYDRATE TOLERANCE AND OBESITY. Bredidahi HD *Med J Aust* 1: 9-10, 19 Jun 76 (Eng) DL/77FEB319
- [PROBLEMS IN GLYCOREGULATION AND SENESCENCE] Gommers A, Jeanjean M, Dehez-Delhay M *Probl Actuels Endocrinol Nutr* serie 17: 193-207, 1973 (Fre) DL/77FEB357
- ENERGY METABOLISM AND PROTEOLYSIS IN TRAUMATIZED AND SEPTIC MAN. Clowes GH Jr, O'Donnell TF, Blackburn GL, Maki TN *Surg Clin North Am* 56: 1169-84, Oct 76 (Eng) [53] DL/77FEB406
- USE OF SULFATED INSULIN IN INSULIN RESISTANCE [LETTER]. Bartle WR *Am J Hosp Pharm* 33: 874-9, Sep 76 (Eng) DL/77FEB466
- ## 1.C.7 INSULIN, THERAPY RELATED
- ### 1.C.7.1 INSULIN, DIAGNOSTIC USE
- THE INFLUENCE OF INSULIN ON THE PROPORTION OF NEUTRAL SUGARS IN SEROMUCOID OF DIABETIC PATIENTS. Guzdek A, Ciba T, Sarnicka-Keller M *Clin Chim Acta* 72: 401-4, 1 Nov 76 (Eng) DL/77FEB44
- A STUDY OF PITUITARY FUNCTION IN PATIENTS WITH IDIOPATHIC HEMOCHROMATOSIS. Walsh CH, Wright AD, Williams JW, Holder G *J Clin Endocrinol Metab* 43: 866-72, Oct 76 (Eng) DL/77FEB169
- HUMAN GROWTH HORMONE CHANGES WITH AGE. PP. 261-70. Bazzarre TL, Johanson AJ, Huseman CA, Varma MM, Blizzard RM *In* Pecile A, Muller EE, ed. *Growth hormone and related peptides*. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB182
- NEUROENDOCRINE CONTROL OF GROWTH HORMONE SECRETION: EXPERIMENTAL AND CLINICAL STUDIES. PP. 236-51. Luzzi A, Panerai AE, Chiodini PG, Secchi C, Cocchi D, Botalla L, Silvestrini F, Muller EE *In* Pecile A, Muller EE, ed. *Growth hormone and related peptides*. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB185
- RADIORECEPTOR ASSAY OF PLASMA NSILAS IN MAN: BASAL AND STIMULATED LEVELS IN NORMAL AND PATHOLOGIC STATES. PP. 127-40. Megyesi K, Kahn CR, Roth J, Gordon P, Neville DM Jr *In* Pecile A, Muller EE, ed. *Growth hormone and related peptides*. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB187
- SEROTONINERGIC CONTROL OF HUMAN GROWTH HORMONE SECRETION: THE ACTIONS OF L-DOPA AND 2-BROMO-ALPHA-ERGOCRYPTINE. PP. 222-35. Smythe GA, Compton PJ, Lazarus L *In* Pecile A, Muller EE, ed. *Growth hormone and related peptides*. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB189
- EFFECT OF THE HISTAMINE H2-RECEPTOR ANTAGONIST, CIMETIDINE, ON GASTRIC SECRETION AND SERUM GASTRIN DURING INSULIN INFUSION IN MAN. Carter DC, Forrest JA, Logan RA, Ansell I, Lidgard G, Heading RC, Shearman DJ *Scand J Gastroenterol* 11: 565-70, 1976 (Eng) DL/77FEB393
- [GROWTH HORMONE DETERMINATIONS IN CHILDREN WITH RHEUMATOID ARTHRITIS AND STILL'S SYNDROME (PROCEEDINGS)] Butenandt O, Eder R, Clados-Kelch A *Z Rheumatol* 35 suppl 4: suppl 47-53, 1976 (Ger) DL/77FEB445
- ### 1.C.7.2 INSULIN ADMINISTRATION AND DOSAGE (SEE 1.F.9.3.1)
- ### 1.C.7.3 INSULIN, THERAPEUTIC USE (SEE 1.F.9.3.2)
- ## 1.C.8 INSULIN, HISTORY
- # 1.D GLUCAGON
- PURIFICATION AND CHARACTERIZATION OF A PROTEIN FROM PORCINE GUT WITH GLUCAGON-LIKE IMMUNOREACTIVITY. Sundby F, Jacobsen H, Moody AJ *Horm Metab Res* 8: 366-71, Sep 76 (Eng) DL/77FEB143
- SEPARATE AUTOANTIBODIES TO HUMAN PANCREATIC GLUCAGON AND SOMATOSTATIN CELLS. Bottazzo GF, Lendrum R *Lancet* 2: 873-6, 23 Oct 76 (Eng) DL/77FEB244
- STUDIES WITH GLUCAGON ANALOGS. Bromer WW *Metabolism* 25: 1315-6, Nov 76 (Eng) DL/77FEB263
- SPECIES VARIATIONS IN THE PRIMARY STRUCTURE OF GLUCAGON. Sundby F *Metabolism* 25: 1319-21, Nov 76 (Eng) DL/77FEB265
- STRUCTURE-FUNCTION RELATIONSHIP: IMMUNOLOGIC. Heding LG, Frandsen EK, Jacobsen H *Metabolism* 25: 1327-9, Nov 76 (Eng) DL/77FEB267
- BIOSYNTHESIS OF GLUCAGON. Noe BD *Metabolism* 25: 1339-41, Nov 76 (Eng) DL/77FEB269
- SALIVARY GLAND GLUCAGON IN MAN AND ANIMALS. Lawrence AM, Tan S, Hojvat S, Kirsteins L, Mitton J *Metabolism* 25: 1405-8, Nov 76 (Eng) DL/77FEB284
- HYPOGLYCEMIA: THE UNDISCLOSED. Blonde L, Riddick FA Jr *South Med J* 69: 1261-5, Nov 76 (Eng) DL/77FEB402
- ## 1.D.1 GLUCAGON, BIOCHEMISTRY RELATED
- ### 1.D.1.1 GLUCAGON, ANALYSIS
- FIELD DESORPTION MASS SPECTRUM OF GLUCAGON. Winkler HU, Beuhler RJ, Friedman L *Biomed Mass Spectrom* 3: 201-6, Oct 76 (Eng) DL/77FEB15
- IMMUNOREACTIVE GLUCAGONS IN PANCREATIC ISLETS. Tager HS, Markese J *Metabolism* 25: 1343-6, Nov 76 (Eng) DL/77FEB270
- ### 1.D.1.2 GLUCAGON, METABOLISM
- EFFECTS OF IODINATION OF TYROSYL RESIDUES ON THE BINDING AND ACTION OF GLUCAGON AT ITS RECEPTOR. Lin MC, Nicosia S, Rodbell M *Biochemistry* 15: 4537-40, 5 Oct 76 (Eng) DL/77FEB9
- POSTMATURITY IN THE RAT: IMPAIRMENT OF INSULIN, GLUCAGON, AND GLYCOGEN STORES. Portha B, Rosselin G, Picon L *Diabetologia* 12: 429-36, Oct 76 (Eng) DL/77FEB110
- THE MECHANISM OF HYPOGLYCEMIA DUE TO SEMISTARVATION IN THE RAT. Cacs CJ *Nutr* 106: 1557-61, Nov 76 (Eng) DL/77FEB202
- INHIBITION OF ACTIONS OF GLUCAGON IN ADIPOCYTES BY GASTRIC INHIBITORY POLYPEPTIDE. Dupre J, Greenidge N, McDonald TJ, Ross SA, Rubinstein D *Metabolism* 25: 1197-9, Nov 76 (Eng) DL/77FEB259
- THE MICROANATOMY OF THE ISLETS OF LANGERHANS. Orci L *Metabolism* 25: 1303-13, Nov 76 (Eng) [30] DL/77FEB262
- BIOLOGIC ACTIVITY AND CONFORMATIONAL PROPERTIES OF GLUCAGON AND GLUCAGON ANALOGS. Epanand RM, Cote TE, Hoa DH, Rosselin G, Schreier S *Metabolism* 25: 1317-8, Nov 76 (Eng) DL/77FEB264
- SEMISYNTHETIC GLUCAGON DERIVATIVES FOR STRUCTURE-FUNCTION STUDIES. Hruby VJ, Wright DE, Lin MC, Rodbell M *Metabolism* 25: 1323-5, Nov 76 (Eng) DL/77FEB266
- THE RELATION OF STRUCTURE TO STORAGE AND RECEPTOR BINDING OF GLUCAGON. Blundell TL, Dockerill S, Sasaki K, Tickle IJ, Wood SP *Metabolism* 25: 1331-6, Nov 76 (Eng) DL/77FEB268

1.D GLUCAGON

THE ROLE OF GLUCAGON-INSULIN INTERACTIONS IN CONTROL OF GLUCOSE TURNOVER AND ITS SIGNIFICANCE IN DIABETES. Vranic M, Ross G, Doi K, Lickley L. *Metabolism* 25: 1375-80, Nov 76 (Eng) DL/77FEB277

[THE ENDOCRINE CELLS OF THE GASTROINTESTINAL EPITHELIUM AND THE METABOLISM OF BIOGENIC AMINES IN THE GASTROINTESTINAL TRACT (AUTHORS TRANSL)] Grube D *Prog Histochem Cytochem* 8: 1-128, 1976 (Ger) [968] DL/77FEB369

FUNCTIONAL DIFFERENTIATION OF THE CHICK ENDOCRINE PANCREAS. II. THE ALPHA CELLS AND GLUCAGON. Benzo CA, Stearns SB *Am J Anat* 147: 273-9, Nov 76 (Eng) DL/77FEB465

1.D.1.3 GLUCAGON, BLOOD

STUDIES ON EXPERIMENTAL HYPOTROPHY IN THE RAT. III. PLASMA INSULIN AND GLUCAGON. Girard JR, Chanez C, Kervran A, Tordet-Cardroit C, Assan R *Biol Neonate* 29: 262-6, 1976 (Eng) DL/77FEB13

INFLUENCE OF METFORMIN ON ARGININE-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ *Diabete Metab* 1: 23-8, Mar 75 (Eng) DL/77FEB84

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltzer C, Leclercq-Meyer V, Mialhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77FEB86

HYPERINSULINEMIA AND HYPERGLUCAGONEMIA FOLLOWING PANCREATIC ISLET TRANSPLANTATION IN DIABETIC RATS. Weber CJ, Hardy MA, Lerner RL, Felig P, Reemtsma K *Diabetes* 25: 944-8, Oct 76 (Eng) DL/77FEB101

EFFECTS OF ACUTE INSULIN WITHDRAWAL AND ADMINISTRATION ON PLASMA GLUCAGON RESPONSES TO INTRAVENOUS ARGININE IN INSULIN-DEPENDENT DIABETIC SUBJECTS. Gerich JE, Lorenzi M, Tsalkian E, Bohannon NV, Schneider V, Karam JH, Forsham PH *Diabetes* 25: 955-60, Oct 76 (Eng) DL/77FEB103

MODULATION OF FATTY ACID METABOLISM BY GLUCAGON IN MAN. IV. EFFECTS OF A PHYSIOLOGIC HORMONE INFUSION IN NORMAL MAN. Schade DS, Eaton RP *Diabetes* 25: 978-83, Oct 76 (Eng) DL/77FEB107

EFFECT OF SOMATOSTATIN ON METABOLIC AND HORMONAL CHANGES INDUCED BY NICOTINIC ACID IN INSULIN-DEPENDENT DIABETICS. Luyckx AS, Lefebvre PJ *Diabetologia* 12: 447-53, Oct 76 (Eng) DL/77FEB113

ADRENAL AND PANCREATIC ENDOCRINE RESPONSES TO HYPOXIA IN THE CONSCIOUS CALF. Bloom SR, Edwards AV, Hardy RN, Silver M *J Physiol (Lond)* 261: 271-83, Oct 76 (Eng) DL/77FEB212

INSULIN, GLUCAGON, AMINOACID IMBALANCE, AND HEPATIC ENCEPHALOPATHY. Soeters PB, Fischer JE *Lancet* 2: 880-2, 23 Oct 76 (Eng) DL/77FEB245

EVANESCENT EFFECTS OF HYPO- AND HYPERGLUCAGONEMIA ON BLOOD GLUCOSE HOMEOSTASIS. Sherwin R, Wahren J, Felig P *Metabolism* 25: 1381-3, Nov 76 (Eng) DL/77FEB278

ROLE OF GLUCAGON IN PERINATAL GLUCOSE HOMEOSTASIS. Sperling MA, Grajwer LA, Leake R, Fisher DA *Metabolism* 25: 1385-6, Nov 76 (Eng) DL/77FEB279

HETEROGENEITY OF PLASMA IMMUNOREACTIVE GLUCAGON. Valverde I, Villanueva ML *Metabolism* 25: 1393-5, Nov 76 (Eng) DL/77FEB281

HETEROGENEITY OF PLASMA GLUCAGON IN MAN. Jaspan JB, Kuku SF, Locker JD, Huen A, Emmanouel DS, Katz AI, Rubenstein AH *Metabolism* 25: 1397-401, Nov 76 (Eng) DL/77FEB282

DOMINANT INHERITANCE OF LARGE MOLECULAR WEIGHT SPECIES OF GLUCAGON. Ensnick JW, Palmer JP *Metabolism* 25: 1409-11, Nov 76 (Eng) DL/77FEB285

CONTROL OF HEPATIC PROLIFERATION: A WORKING HYPOTHESIS INVOLVING HORMONES, LIPOPROTEINS, AND NOVEL NUCLEOTIDES. Koch KS, Leffert HL *Metabolism* 25: 1419-22, Nov 76 (Eng) DL/77FEB287

INSULIN, GLUCAGON, LIVER REGENERATION, AND DNA SYNTHESIS. Bucher NL, Weir GC *Metabolism* 25: 1423-5, Nov 76 (Eng) DL/77FEB288

INSULIN, GLUCAGON, AND THE CONTROL OF HEPATIC STRUCTURE, FUNCTION, AND CAPACITY FOR REGENERATION. Starzl TE, Porter KA, Putnam CW *Metabolism* 25: 1429-34, Nov 76 (Eng) DL/77FEB290

CENTRAL NERVOUS SYSTEM-MEDIATED STIMULATION OF GLUCAGON SECRETION IN THE DOG FOLLOWING 2-DEOXYGLUCOSE. Frohman LA, Nagai K *Metabolism* 25: 1449-52, Nov 76 (Eng) DL/77FEB295

NEUROTENSIN AND SUBSTANCE-P: EFFECTS ON PLASMA INSULIN AND GLUCAGON LEVELS. Brown M, Villarreal J, Vale W *Metabolism* 25: 1459-61, Nov 76 (Eng) DL/77FEB298

EFFECTS OF SUBSTANCE-P [PROCEEDINGS]. Sasaki H *Metabolism* 25: 1463, Nov 76 (Eng) DL/77FEB299

COMPARISON STUDIES OF NEUROTENSIN AND XENOPSIN UPON PANCREATIC SECRETION IN THE DOG [PROCEEDINGS]. Ishida T, Kawamura K, Goto A, Nishina Y, Takahara J *Metabolism* 25: 1467, Nov 76 (Eng) DL/77FEB301

EXTRAPANCREATIC GLUCAGON IN THE DOG. Vranic M, Engerman R, Doi K, Morita S, Yip CC *Metabolism* 25: 1469-73, Nov 76 (Eng) DL/77FEB302

PLASMA GLUCAGON IN DIABETES RESULTING FROM TOTAL PANCREATECTOMY [PROCEEDINGS]. Bloom SR, Barnes AJ, Bryant MG, Alberti KG *Metabolism* 25: 1481-2, Nov 76 (Eng) DL/77FEB304

IMMUNOREACTIVE GLUCAGON RESPONSES TO ARGININE IN THREE PANCREATECTOMIZED HUMANS. Palmer JP, Werner PL, Benson JW, Ensnick JW *Metabolism* 25: 1483-5, Nov 76 (Eng) DL/77FEB305

ELEVATED GUT GLUCAGON-LIKE IMMUNOREACTIVE MATERIAL IN HUMAN AND EXPERIMENTAL DIABETES AND ITS SUPPRESSION BY SOMATOSTATIN. Wider MD, Matsuyama T, Dunbar JC, Foa PP *Metabolism* 25: 1487-9, Nov 76 (Eng) DL/77FEB306

SOMATOSTATIN ANALOGS WITH SELECTED BIOLOGIC ACTIVITIES. Brown M, Rivier J, Vale W *Metabolism* 25: 1501-3, Nov 76 (Eng) DL/77FEB309

METABOLIC EFFECTS OF LONG-TERM SOMATOSTATIN INFUSION IN MAN. Gerich JE *Metabolism* 25: 1505-7, Nov 76 (Eng) DL/77FEB310

THE EFFECTS OF GLUCAGON ADMINISTRATION TO NONDIABETICS AND DIABETICS. Unger RH, Aydin I, Nakabayashi H, Srikant CB, Raskin P *Metabolism* 25: 1523-6, Nov 76 (Eng) DL/77FEB315

EVIDENCE FOR AN INSULIN-INDEPENDENT ALPHA-CELL ABNORMALITY IN HUMAN DIABETES. Bennett PH, Aronoff SL, Unger RH *Metabolism* 25: 1527-9, Nov 76 (Eng) DL/77FEB316

THE EFFECTS OF ACUTE AND CHRONIC INSULIN ADMINISTRATION ON PLASMA IRL LEVELS IN HUMAN DIABETES. Raskin P, Aydin I, Unger RH *Metabolism* 25: 1531-3, Nov 76 (Eng) DL/77FEB317

RAT GASTRIC MUCOSAL OXYGEN TENSION, ULCER INDEX, PLASMA GASTRIN AND GLUCAGON FOLLOWING RESTRAINT STRESS. INFLUENCE OF VAGOTOMY, SPYLANCHNICOTOMY AND EXOGENOUS SECRETIN. Schwille PO, Schellerer W, Steiner H, Reitzenstein M *Res Exp Med (Berl)* 167: 149-58, 15 May 76 (Eng) DL/77FEB375

EFFECTS OF TRIETHYLENETETRAMINE UPON THE METABOLISM AND TOXICITY OF 63NiCl₂ IN RATS. Sunderman FW Jr, Kasprzak K, Horak E, Gitlitz P, Onkelinx C *Toxicol Appl Pharmacol* 38: 177-88, Oct 76 (Eng) DL/77FEB414

PHYSICAL ACTIVITY AND HORMONES. Adlercreutz H, Harkonen M, Kuoppasalmi K, Kosunen K, Naveri H, Rehnens S *Adv Cardiol* 18: 144-57, 1976 (Eng) DL/77FEB461

TUMORS OF THE ISLETS OF LANGERHANS. Zollinger RM, Mazzaferri EL *Adv Surg* 10: 137-76, 1976 (Eng) [73] DL/77FEB464

FUNCTIONAL DIFFERENTIATION OF THE CHICK ENDOCRINE PANCREAS. II. THE ALPHA CELLS AND GLUCAGON. Benzo CA, Stearns SB *Am J Anat* 147: 273-9, Nov 76 (Eng) DL/77FEB465

GASTRIC A-CELL FUNCTION IN NORMAL DOGS. Munoz-Barragan L, Blazquez E, Patton GS, Dobbs RE, Unger RH *Am J Physiol* 231: 1057-61, Oct 76 (Eng) DL/77FEB474

1.D.2 GLUCAGON, PHYSIOLOGY RELATED

1.D.2.1 GLUCAGON, PHYSIOLOGY

PRESENT PARADOXES IN THE ENVIRONMENTAL CONTROL OF HEPATIC PROLIFERATION. Leffert HL, Koch KS, Rubalcava B *Cancer Res* 36: 4250-5, Nov 76 (Eng) DL/77FEB38

PHYSIOLOGICAL RESPONSES TO STRESS WITH REFERENCE TO THE DOMESTIC FOWL. Freeman BM *Lab Anim* 10: 385-8, Oct 76 (Eng) [15] DL/77FEB230

INSULIN, GLUCAGON, AND THE CONTROL OF HEPATIC STRUCTURE, FUNCTION, AND CAPACITY FOR REGENERATION. Starzl TE, Porter KA, Putnam CW *Metabolism* 25: 1429-34, Nov 76 (Eng) DL/77FEB290

PHYSIOLOGY AND PATHOPHYSIOLOGY OF GLUCAGON. Unger RH, Orci L *Physiol Rev* 56: 778-826, Oct 76 (Eng) [164] DL/77FEB365

HORMONAL RESPONSES AND THEIR EFFECT ON METABOLISM. Wilmore DW *Surg Clin North Am* 56: 999-1018, Oct 76 (Eng) DL/77FEB407

1.D.2.2 GLUCAGON, SECRETION

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hautecouverture M, Buneaux JJ *Diabete Metab 1: 101-11, Jun 75 (Eng)* DL/77FEB91

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL)] Leclercq-Meyer V, Malaise WJ *Diabete Metab 1: 119-22, Jun 75 (Fre)* DL/77FEB93

THE ROLE OF CALCIUM IN GLUCAGON RELEASE, INTERACTIONS BETWEEN GLUCOSE AND CALCIUM. Leclercq-Meyer V, Marchand J, Malaise WJ *Diabetologia 12: 531-8, Oct 76 (Eng)* DL/77FEB124

SOMATOSTATIN, A HORMONE OF THE ALPHA 1-CELLS OF THE PANCREATIC ISLETS AND ITS INFLUENCE ON THE SECRETION OF INSULIN AND GLUCAGON. PP. 216-21. Efendic S, Hokfelt T, Luft R *In: Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng)* DL/77FEB190

CONTROL OF GLUCAGON SECRETION BY NUTRIENTS IN VITRO. Matschinsky FM, Pagliara AS *Metabolism 25: 1435-6, Nov 76 (Eng)* DL/77FEB291

CONTROL OF PANCREATIC IIRG SECRETION IN VIVO. Gerich JE *Metabolism 25: 1437-41, Nov 76 (Eng)* [13] DL/77FEB292

INTRAISLET NEGATIVE INSULIN-GLUCAGON FEEDBACK. Samols E, Harrison J *Metabolism 25: 1443-7, Nov 76 (Eng)* DL/77FEB293

GLUCAGON AND GASTRIN RELEASE BY THE ISOLATED PERFUSED DOG STOMACH IN RESPONSE TO ARGININE. Lefebvre PJ, Luyckx AS, Brassinne AH, Nizet AH *Metabolism 25: 1447-9, Nov 76 (Eng)* DL/77FEB294

CENTRAL NERVOUS SYSTEM-MEDIATED STIMULATION OF GLUCAGON SECRETION IN THE DOG FOLLOWING 2-DEOXYGLUCOSE. Frohman LA, Nagai K *Metabolism 25: 1449-52, Nov 76 (Eng)* DL/77FEB295

NEUROHUMORAL REGULATION OF THE PANCREATIC ISLET A AND B CELLS. Porte D Jr, Smith PH, Ensink JW *Metabolism 25: 1453-6, Nov 76 (Eng)* [21] DL/77FEB296

GUT HORMONES AND THE ALPHA CELL. Bloom SR, Iversen J *Metabolism 25: 1457-8, Nov 76 (Eng)* DL/77FEB297

EFFECTS OF NEUROTENSIN AND SUBSTANCE P ON INSULIN AND GLUCAGON RELEASE BY THE PERFUSED DOG PANCREAS [PROCEEDINGS]. Patton G, Brown M, Dobbs R, Vale W, Unger RH *Metabolism 25: 1465, Nov 76 (Eng)* DL/77FEB300

GASTRIC GLUCAGON SECRETION. Blazquez E, Munoz-Barragan L, Patton GS, Dobbs R, Unger RH *Metabolism 25: 1475-6, Nov 76 (Eng)* DL/77FEB303

ELEVATED GUT GLUCAGON-LIKE IMMUNOREACTIVE MATERIAL IN HUMAN AND EXPERIMENTAL DIABETES AND ITS SUPPRESSION BY SOMATOSTATIN. Wider MD, Matsuyama T, Dunbar JC, Foa PP *Metabolism 25: 1487-9, Nov 76 (Eng)* DL/77FEB306

REMARKABLE POTENCY OF SOMATOSTATIN AS A GLUCAGON SUPPRESSANT. Samols E, Harrison J *Metabolism 25: 1495-7, Nov 76 (Eng)* DL/77FEB307

ALPHA CELL FUNCTION IN DIABETES MELLITUS. Gerich JE *Metabolism 25: 1513-6, Nov 76 (Eng)* DL/77FEB312

REGULATION OF GLUCAGON SECRETION OF THE DIABETIC PANCREAS IN VITRO [PROCEEDINGS]. Matschinsky FM, Pagliara AS *Metabolism 25: 1517, Nov 76 (Eng)* DL/77FEB313

GLUCAGON SECRETION FROM THE PERFUSED RAT PANCREAS FOLLOWING ACUTE AND CHRONIC STREPTOZOTOCIN. Weir GC, Atkins RF, Martin DB *Metabolism 25: 1519-21, Nov 76 (Eng)* DL/77FEB314

EVIDENCE FOR AN INSULIN-INDEPENDENT ALPHA-CELL ABNORMALITY IN HUMAN DIABETES. Bennett PH, Aronoff SL, Unger RH *Metabolism 25: 1527-9, Nov 76 (Eng)* DL/77FEB316

PHYSIOLOGY AND PATHOPHYSIOLOGY OF GLUCAGON. Unger RH, Orci L *Physiol Rev 56: 778-826, Oct 76 (Eng)* [164] DL/77FEB365

GASTRIC A-CELL FUNCTION IN NORMAL DOGS. Munoz-Barragan L, Blazquez E, Patton GS, Dobbs RE, Unger RH *Am J Physiol 231: 1057-61, Oct 76 (Eng)* DL/77FEB474

STUDIES WITH THE AUTOTRANSPLANTED OVINE PANCREAS: GLUCAGON AND INSULIN SECRETION. Arcus AC, Ellis MJ, Kirk RD, Beaven DW, Donald RA, Hart DS, Holland GW, Redekopp C *Aust J Biol Sci 29: 223-36, Jul 76 (Eng)* DL/77FEB496

1.D.3 GLUCAGON, PHARMACOLOGY RELATED

1.D.3.1 GLUCAGON, ADMINISTRATION AND DOSAGE

[METABOLIC EFFECT OF ADMINISTRATION OF GLUCAGON AND A COMBINATION OF GLUCAGON AND FRUCTOSE TO PATIENTS WITH CIRRHOSIS OF THE LIVER AND TO HEALTHY SUBJECTS (AUTHORS TRANSL)] Brodanova M, Brodan V, Andel M, Kuhn E *Sb Lek 78: 218-24, Aug 76 (Cze)* DL/77FEB390

1.D.3.2 GLUCAGON, PHARMACODYNAMICS

ADENYLATE CYCLASE ACTIVITY IN HUMAN TISSUES. Constantopoulos A, Xypolita A, Matsiotis N *Biol Neonate 29: 294-8, 1976 (Eng)* DL/77FEB14

THE INFLUENCE OF GLUCAGON UPON THE RESPONSES OF THE HEPATIC ARTERIAL VASCULATURE TO VASODILATOR AGENTS [PROCEEDINGS]. Richardson PD, Withington PG *Br J Pharmacol 57: 473p, Jul 76 (Eng)* DL/77FEB17

EFFECT OF SECRETIN ON PACEMAKER ACTIVITY AND CONTRACTILITY IN THE ISOLATED BLOOD-PERFUSED ATRIUM OF THE DOG. Chiba S *Clin Exp Pharmacol Physiol 3: 167-72, Mar-Apr 76 (Eng)* DL/77FEB45

HORMONE REGULATED REDOX FUNCTION IN PLASMA MEMBRANES. Low H, Crane FL *FEBS Lett 68: 157-9, 1 Oct 76 (Eng)* DL/77FEB77

BEHAVIOR OF THE LYSOSOMAL SYSTEM DURING ORGAN PERFUSION. AN INQUIRY INTO THE MECHANISM OF HEPATIC PROTEOLYSIS. Mortimore GE, Ward WF *Front Biol 45: 157-84, 1976 (Eng)* [65] DL/77FEB80

[IN VITRO ASSAY FOR ACTH-RELEASING ACTIVITY USING ACTH RADIOIMMUNOAS-

SAY: ACTH RELEASING ACTIVITIES BY VARIOUS DRUGS (AUTHORS TRANSL)] Hashimoto K, Takahara J, Hosogi H, Ofuji N, Yasuhara T *Folia Endocrinol Jpn 52: 114-24, 20 Feb 76 (Jpn)* DL/77FEB82

THE EFFECTS OF HORMONES AND PROSTAGLANDINS ON THE CALCIUM POOLS IN CULTURED MYOCARDIAL CELLS. Moura AM, Simpkins H *Mol Cell Endocrinol 5: 349-57, Oct 76 (Eng)* DL/77FEB98

MODULATION OF FATTY ACID METABOLISM BY GLUCAGON IN MAN. IV. EFFECTS OF A PHYSIOLOGIC HORMONE INFUSION IN NORMAL MAN. Schade DS, Eaton RP *Diabetes 25: 978-83, Oct 76 (Eng)* DL/77FEB107

DISAPPEARANCE RATE OF ENDOGENOUS HUMAN C-PEPTIDE FROM BLOOD. Kuzuya T, Matsuda A *Diabetologia 12: 519-21, Oct 76 (Eng)* DL/77FEB121

THE CONTRIBUTION OF THE PANCREAS AND THE INTESTINE TO THE REGULATION OF LIPOLYSIS IN BIRDS. 2. IMPAIRED LIPOLYTIC ACTIVITY OF PANCREATIC GLUCAGON IN THE ABSENCE OF EITHER THE PANCREAS OR THE INTESTINE IN THE CHICKEN. Krug E, Gross R, Mialhe P *Horm Metab Res 8: 345-50, Sep 76 (Eng)* DL/77FEB139

HYPOGLYCEMIA AND HYPOINSULINEMIA ASSOCIATED WITH HEPATOMA IN A DOG. Strombeck DR, Krum S, Meyer D, Kappesser RM *J Am Vet Med Assoc 169: 811-2, 15 Oct 76 (Eng)* DL/77FEB152

A POLYPEPTIDE (AP-A) FROM SEA ANEMONE (ANTHOPELURA XANTHOGRAMMICA) WITH POTENT POSITIVE INOTROPIC ACTION. Shibata S, Norton TR, Izumi T, Matsuo T, Katsuki S *J Pharmacol Exp Ther 199: 298-309, Nov 76 (Eng)* DL/77FEB210

BIOLOGIC ACTIVITY AND CONFORMATIONAL PROPERTIES OF GLUCAGON AND GLUCAGON ANALOGS. Eppard RM, Cote TE, Hoa DH, Rosselin G, Schreier S *Metabolism 25: 1317-8, Nov 76 (Eng)* DL/77FEB264

SEMISYNTHETIC GLUCAGON DERIVATIVES FOR STRUCTURE-FUNCTION STUDIES. Hruby VJ, Wright DE, Lin MC, Rodbell M *Metabolism 25: 1323-5, Nov 76 (Eng)* DL/77FEB266

REGULATION OF HEPATIC ADENYLATE CYCLASE BY GLUCAGON, GTP, DIVALENT CATIONS, AND ADENOSINE. Rodbell M, Londos C *Metabolism 25: 1347-9, Nov 76 (Eng)* DL/77FEB271

STUDIES ON THE ROLE OF CAMP-DEPENDENT PROTEIN KINASE IN THE ACTIONS OF GLUCAGON AND CATECHOLAMINES ON LIVER GLYCOGEN METABOLISM. Cherrington AD, Exton JH *Metabolism 25: 1351-4, Nov 76 (Eng)* DL/77FEB272

POSSIBLE ROLE OF PYRUVATE KINASE IN THE HORMONAL CONTROL OF DIHYDROXYACETONE GLUCONEOGENESIS IN ISOLATED HEPATOCYTES. Pilks SJ, Claus TH, Riou JP, Park CR *Metabolism 25: 1355-60, Nov 76 (Eng)* DL/77FEB273

MECHANISMS OF HORMONAL CONTROL OF GLUCONEOGENESIS. Haynes RC Jr *Metabolism 25: 1361-3, Nov 76 (Eng)* DL/77FEB274

AN IMPORTANT ROLE FOR GLUCAGON IN THE REGULATION OF GLUCOSE PRODUCTION IN VIVO. Liljenquist JE, Chiassan JL, Cherrington AD, Keller U, Jennings AS, Bomboy JD, Lacy WW *Metabolism 25: 1371-3, Nov 76 (Eng)* DL/77FEB276

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

THE ROLE OF GLUCAGON-INSULIN INTERACTIONS IN CONTROL OF GLUCOSE TURNOVER AND ITS SIGNIFICANCE IN DIABETES. Vranic M, Ross G, Doi K, Lickley L. *Metabolism* 25: 1375-80, Nov 76 (Eng) DL/77FEB277

GLUCAGON AND KETOGENESIS. McGarry JD, Robles-Valdes C, Foster DW. *Metabolism* 25: 1387-9, Nov 76 (Eng) DL/77FEB280

CHARACTERISTICS OF TISSUE IGRS IN THE DOG. Srikant CB, McCorkle K, Unger RH. *Metabolism* 25: 1403-4, Nov 76 (Eng) DL/77FEB283

GLUCAGON AND LIPOPROTEINS. Eaton RP. *Metabolism* 25: 1415-7, Nov 76 (Eng) [9] DL/77FEB286

INSULIN, GLUCAGON, LIVER REGENERATION, AND DNA SYNTHESIS. Bucher NL, Weir GC. *Metabolism* 25: 1423-5, Nov 76 (Eng) DL/77FEB288

INSULIN AND GLUCAGON AS MODIFIERS OF DNA SYNTHESIS IN THE REGENERATING RAT LIVER. Price JB Jr. *Metabolism* 25: 1427-8, Nov 76 (Eng) DL/77FEB289

STIMULATION OF PANCREATIC IMMUNOREACTIVE SOMATOSTATIN (IRS) RELEASE BY GLUCAGON [PROCEEDINGS]. Patton GS, Dobbs R, Orci L, Vale W, Unger RH. *Metabolism* 25: 1499, Nov 76 (Eng) DL/77FEB308

THE EFFECTS OF GLUCAGON ADMINISTRATION TO NONDIABETICS AND DIABETICS. Unger RH, Aydin I, Nakabayashi H, Srikant CB, Raskin P. *Metabolism* 25: 1523-6, Nov 76 (Eng) DL/77FEB315

[POLYCARDIOGRAPHIC EVALUATION OF LEFT VENTRICULAR CONTRACTION FOLLOWING GLUCAGON ADMINISTRATION TO PATIENTS WITH CHRONIC CIRCULATORY FAILURE] Szczeklik J, Dubiel J, Pyzik Z. *Pol Tyg Lek* 31: 1709-12, 4 Oct 76 (Pol) DL/77FEB347

HORMONAL STIMULATION OF DNA SYNTHESIS IN PRIMARY CULTURES OF ADULT RAT HEPATOCYTES. Richman RA, Claus TH, Pilakis SJ, Friedman DL. *Proc Natl Acad Sci USA* 73: 3589-93, Oct 76 (Eng) DL/77FEB360

INHIBITION OF THE GLUCOSE INDUCED INSULIN RELEASE BY SOMATOSTATIN IN THE ISOLATED PERFUSED RAT PANCREAS. ACTION OF CYCLIC AMP, GLUCAGON AND GLIBENCLAMIDE. Osorio J, Campillo JE, de los Arcos JG, Pages I, Rodriguez E, Marasco M, Melani F. *Rev Exp Fisiol* 32: 211-6, Sep 76 (Eng) DL/77FEB372

EFFECT OF CHRONIC GLUCAGON-ADMINISTRATION ON THE DIGESTIVE AND ABSORPTIVE FUNCTION OF RAT SMALL INTESTINE IN VIVO. Caspary WF, Lucke H. *Res Exp Med (Berl)* 167: 1-13, 27 Feb 76 (Eng) DL/77FEB373

[MODIFICATION OF INSULIN-SECRETION, INDUCED BY GLUCOSE, OF THE ISOLATION-PERFUSED RAT PANCREAS USING TOLBUTAMIDE, GLUCOSAMINE, DIAZOXIDE, GLUCAGON AND ENDOGENOUS INSULIN] Bierwolf B, Blech W. *Acta Biol Med Ger* 35: 583-95, 1976 (Ger) DL/77FEB450

STUDIES WITH THE AUTOTRANSPLANTED OVINE PANCREAS: GLUCAGON AND INSULIN SECRETION. Arcus AC, Ellis MJ, Kirk RD, Beaven DW, Donald RA, Hart DS, Holland GW, Redekopp C. *Aust J Biol Sci* 29: 223-36, Jul 76 (Eng) DL/77FEB496

ORGAN DISTRIBUTION OF RAT HISTIDINE-PYRUVATE AMINOTRANSFERASE ISOEN-

ZYMES. Noguchi T, Minatogawa Y, Okuno E, Kido R. *Biochem J* 157: 635-41, 1 Sep 76 (Eng) DL/77FEB502

GLUCAGON STIMULATES THE A SYSTEM FOR NEUTRAL AMINO ACID TRANSPORT IN ISOLATED HEPATOCYTES OF ADULT RAT. Le Cam A, Freychet P. *Biochem Biophys Res Commun* 72: 893-901, 4 Oct 76 (Eng) DL/77FEB510

CYCLIC NUCLEOTIDE-, PYRUVATE- AND HORMONE-INDUCED CHANGES IN PYRUVATE KINASE ACTIVITY IN ISOLATED RAT HEPATOCYTES. van Berkel TJ, Kruijt JK, Koster JF, Hulsmann WC. *Biochem Biophys Res Commun* 72: 917-25, 4 Oct 76 (Eng) DL/77FEB511

ADRENALINE-INDUCED DESENSITIZATION OF LIVER ADENYLATE CYCLASE. Lam V, Bar HP. *Biochem Pharmacol* 25: 2103-4, 15 Sep 76 (Eng) DL/77FEB513

1.D.3.3 GLUCAGON, TOXICITY

1.D.4 GLUCAGON, THERAPY RELATED

1.D.4.1 GLUCAGON, DIAGNOSTIC USE

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerasi E. *Diabetes Metab* 1: 51-6, Mar 75 (Eng) DL/77FEB88

1.D.4.2 GLUCAGON, THERAPEUTIC USE

[POLYCARDIOGRAPHIC EVALUATION OF LEFT VENTRICULAR CONTRACTION FOLLOWING GLUCAGON ADMINISTRATION TO PATIENTS WITH CHRONIC CIRCULATORY FAILURE] Szczeklik J, Dubiel J, Pyzik Z. *Pol Tyg Lek* 31: 1709-12, 4 Oct 76 (Pol) DL/77FEB347

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

1.E.1 BLOOD SUGAR

HYPOLYCAEMIA IN CHILDREN UNDERGOING OPERATIONS [LETTER]. Simpson JC. *Br Med J* 2: 758, 25 Sep 76 (Eng) DL/77FEB25

DIABETES MELLITUS AND LEFT VENTRICULAR FUNCTION. Ahmed SS, Regan TJ. *Compr Ther* 2: 51-7, Nov 76 (Eng) DL/77FEB53

FEED-BACK INHIBITION OF INSULIN SECRETION IN SUBJECTS WITH HIGH AND LOW INSULIN RESPONSE TO GLUCOSE. Cerasi E. *Diabetes Metab* 1: 73-6, Jun 75 (Eng) DL/77FEB94

METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E. *Diabetes Metab* 1: 77-85, Jun 75 (Eng) DL/77FEB95

IS DIABETES A MODEL FOR AGING? Shagan BP. *Med Clin North Am* 60: 1209-11, 1976 (Eng) DL/77FEB241

DOMINANT INHERITANCE OF LARGE MOLECULAR WEIGHT SPECIES OF GLUCAGON. Ensink JW, Palmer JP. *Metabolism* 25: 1409-11, Nov 76 (Eng) DL/77FEB285

[CLINICAL EXPERIENCE WITH THE NEW HUNGARIAN GLIBENCLAMIDE PRODUCT (GILEMAL)] Bela P, Miklos G. *Orv Hetil* 117: 2792-4, 14 Nov 76 (Hun) DL/77FEB335

THE INSULIN RECEPTOR IN NORMAL AND OBESE PERSONS. Beck-Nielsen H, Pedersen O, Bagger JP, Sorensen NS. *Acta Endocrinol (Kbh)* 83: 565-75, Nov 76 (Eng) DL/77FEB456

URETHANE-INDUCED HYPERGLYCEMIA IN RATS. Krzemien K, Lipowska-Zabawska L. *Acta Physiol Pol* 27: 369-76, Jul-Aug 76 (Eng) DL/77FEB458

DRUG MODIFICATION OF HYPOTHERMIA INDUCED BY CNS GLUCOPENIA IN THE MOUSE. Mager M, Robinson S, Freinkel N. *Biochem J* 157: 559-64, 1 Sep 76 (Eng) DL/77FEB499

EFFECTS OF ARTERIAL VERSUS VENOUS SAMPLING ON ANALYSIS OF GLUCOSE KINETICS IN MAN. McGuire EA, Helderma JH, Tobin JD, Andres R, Berman M. *Biochem J* 157: 565-73, 1 Sep 76 (Eng) DL/77FEB500

1.E.1.1 BLOOD SUGAR, ANALYSIS

STUDIES ON EXPERIMENTAL HYPOTROPHY IN THE RAT. III. PLASMA INSULIN AND GLUCAGON. Girard JR, Chanez C, Kervran A, Tordet-Caridroit C, Assan R. *Biol Neonate* 29: 262-6, 1976 (Eng) DL/77FEB13

THE EFFECT OF CHANGES IN BLOOD GLUCOSE ON THE MOTILITY OF THE DUODENUM IN SHEEP. Mostaghni K, Howard BR. *Cornell Vet* 66: 598-603, Oct 76 (Eng) DL/77FEB59

HUMAN C-PEPTIDE IMMUNOREACTIVITY (CPR) IN BLOOD AND URINE - EVALUATION OF A RADIOIMMUNOASSAY METHOD AND ITS CLINICAL APPLICATIONS. Kuzuya T, Saito T, Yoshida S, Matsuda A. *Diabetologia* 12: 511-8, Oct 76 (Eng) DL/77FEB120

[MUSCULAR WORK IN THE THERAPY OF DIABETES MELLITUS] Berger M. *Fortschr Med* 94: 1553-7, 7 Oct 76 (Ger) DL/77FEB136

HYPOLYCEMIA AND HYPOLYINSULINEMIA ASSOCIATED WITH HEPATOMA IN A DOG. Strombeck DR, Krum S, Meyer D, Kappesser RM. *J Am Vet Med Assoc* 169: 811-2, 15 Oct 76 (Eng) DL/77FEB152

ESTIMATES OF THE KINETIC PARAMETERS OF GROWTH HORMONE METABOLISM IN FED AND FASTED CALVES AND SHEEP. Trenkle A. *J Anim Sci* 43: 1035-43, Nov 76 (Eng) DL/77FEB153

EFFECT OF POTASSIUM AND HYPOMAGNESEMIA ON INSULIN IN THE BOVINE. Lentz DE, Madsen FC, Miller JK, Hansard SL. *J Anim Sci* 43: 1082-7, Nov 76 (Eng) DL/77FEB154

INFLUENCE OF DIETARY ENERGY DURING GESTATION ON LAMBING PERFORMANCE, AND GLUCOSE METABOLISM IN FINNCROSS EWES. Prior RL, Christenson RK. *J Anim Sci* 43: 1114-24, Nov 76 (Eng) DL/77FEB155

THE SUGAR CONNECTION. REACTIVE HYPOLYCEMIAS AND IMMUNOREACTIVE INSULIN ASSAY. Shah S. *J Kans Med Soc* 77: 494, 516, Nov 76 (Eng) DL/77FEB196

TIME COURSE OF GLUCOSE-INDUCED INCREASE IN PLASMA INSULIN IN THE RAT FETUS IN UTERO. Dervran A, Girard JR. *J Endocrinol* 70: 519-20, Sep 76 (Eng) DL/77FEB199

REACTIVE HYPERGLYCAEMIA IN PATIENTS WITH ACUTE STROKE. Melamed E. *J Neurol Sci* 29: 267-75, Oct 76 (Eng) DL/77FEB200

Diabetes Literature—Hierarchical Index

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

RELATIONSHIPS BETWEEN MATERNAL GLUCOSE INTOLERANCE AND NEONATAL BLOOD GLUCOSE. Haworth JC, Dilling LA *J Pediatr* 89: 810-3, Nov 76 (Eng) DL/77FEB207

THE ENDOCRINE SYSTEM IN PATIENTS WITH ACUTE RENAL INSUFFICIENCY. Kokot F, Kuska J *Kidney Int [Suppl]* 10: 826-31, Oct 76 (Eng) DL/77FEB223

PHYSIOLOGICAL RESPONSES TO STRESS WITH REFERENCE TO THE DOMESTIC FOWL. Freeman BM *Lab Anim* 10: 385-8, Oct 76 (Eng) [15] DL/77FEB230

ORAL GLUCOSE TOLERANCE TEST IN THE CYNOMOLGUS MONKEY (MACACA FASCICULARIS). Honjo S, Kondo Y, Cho F *Lab Anim Sci* 26: 771-6, Oct 76 (Eng) DL/77FEB231

HYPERGLYCAEMIA AND DIABETES MELLITUS. Jarrett RJ, Keen H *Lancet* 2: 1009-12, 6 Nov 76 (Eng) DL/77FEB250

METHYLGUANIDINE AND INSULIN RESPONSE IN PATIENTS ON MAINTENANCE HAEMODIALYSIS [LETTER]. Ferrannini E, Navalesi R, Pilo A, Morelli E *Lancet* 2: 1028-9, 6 Nov 76 (Eng) DL/77FEB252

[TREATMENT OF DIABETIC KETO-ACIDOSIS THROUGH CONTINUOUS INSULIN INFUSION] Mirouze J, Mion C, Monnier L, Beraud JJ, Selam JL *Nouv Presse Med* 5: 2444-6, 6 Nov 76 (Fre) DL/77FEB342

GLUCOSE TOLERANCE AND HORMONE REPLACEMENT THERAPY. A PRELIMINARY STUDY. Sturdee DW, Gustafson RC, Moore B *Postgrad Med J* 52 SUPPL 6: 52-4, 1976 (Eng) DL/77FEB352

EFFECT OF HEPARIN ON INSULIN SECRETION IN VIVO AND IN VITRO. Orosz L *Res Exp Med (Berl)* 167: 239-54, 2 Jul 76 (Eng) DL/77FEB377

HYPOGLYCAEMIA: THE UNDISEASE. Blonde L, Riddick FA Jr *South Med J* 69: 1261-5, Oct 76 (Eng) DL/77FEB402

IMPAIRED GLUCOSE FLOW IN BURNED PATIENTS WITH GRAM-NEGATIVE SEPSIS. Wilmore DW, Mason AD Jr, Pruitt BA Jr *Surg Gynecol Obstet* 143: 720-4, Nov 76 (Eng) DL/77FEB408

[BLOOD GLUCOSE LEVELS IN PATIENTS ON HEMODIALYSIS DURING PROPRANOLOL (INDERAL) TREATMENT] Jensen HA, Laursen PA, Moller BB *Ugeskr Laeger* 138: 2956-7, 15 Nov 76 (Dan) DL/77FEB418

[BLOOD SUGAR AND BLOOD INSULIN AFTER A RAW OR COOKED MEAL IN CONTROL AND DIABETIC SUBJECTS] Havrankova J, Pesant P, Elie R, Matte R *Union Med Can* 105: 1147-51, Aug 76 (Fre) DL/77FEB421

[COMPARATIVE QUANTITATIVE RAPID DETERMINATION OF BLOOD SUGAR BY MEANS OF VARIOUS REFLECTOMETER-SYSTEMS] Schernthaner G, Erd W, Sinzinger H, Penner E *Wien Med Wochenschr* 126: 571-4, 1 Oct 76 (Ger) DL/77FEB435

[COMPARATIVE STUDIES ON THE ORAL GLUCOSE TOLERANCE USING 50 AND 100G OF GLUCOSE WITH SPECIAL REFERENCE TO VARIOUS LIPID-METABOLISM PARAMETERS] Meinel H, Wolff E *Z Aerztl Fortbild (Jena)* 70: 943-6, 1 Sep 76 (Ger) DL/77FEB437

[THE SIGNIFICANCE OF STRESS INTENSITY FOR THE EMOTIONAL AND VISCERAL REACTIVITY, ESPECIALLY FOR BLOOD PRESSURE REGULATION] Hecht K, Hai NV, Moritz V, Hecht T *Acta Biol Med Ger* 35: 23-33, 1976 (Ger) DL/77FEB448

[CORRELATIONS BETWEEN HIPPOCAMPUS FUNCTION AND STRESSED LEARNING AND THEIR EFFECT ON CEREBRO-VISCERAL REGULATION PROCESSES] Hecht K, Hai NV, Hecht T, Moritz V, Woosmann H *Acta Biol Med Ger* 35: 35-45, 1976 (Ger) DL/77FEB449

[PHARMACOKINETIC OF GLIPENTIDE (UR-661) BY IV. ADMINISTRATION ON HEALTHY AND DIABETIC VOLUNTEERS (AUTHORS TRANSL)] Rimbau Barreras V, Uriach Marsal J, Pou Torello JM *Arch Pharmacol Toxicol* 2: 115-22, Aug 76 (Spa) DL/77FEB491

[THE GLYCOGEN CONTENT OF BLOOD AND UTERINE TISSUE IN WOMEN WITH MYOMA AND ENDOMETRIOSIS (AUTHORS TRANSL)] Muck BR, Hommel G *Arch Gynaecol* 221: 129-37, 17 Sep 76 (Ger) DL/77FEB493

1.E.1.2 BLOOD SUGAR, BIOSYNTHESIS

1.E.1.3 BLOOD SUGAR, METABOLISM

THE EFFECT OF ORAL RITODRINE ON MATERNAL AND FETAL CARBOHYDRATE METABOLISM. Blouin D, Murray MA, Beard RW *Br J Obstet Gynaecol* 83: 711-5, Sep 76 (Eng) DL/77FEB88

INFLUENCE OF METFORMIN ON ARGININE-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ *Diabete Metab* 1: 23-8, Mar 75 (Eng) DL/77FEB84

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltzer C, Leclercq-Meyer V, Mialhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77FEB86

[PROPORTION OF LOW INSULIN RESPONSES TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL)] Vague P, Ramahandridona G, Vague J *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77FEB87

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerasi E *Diabete Metab* 1: 51-6, Mar 75 (Eng) DL/77FEB88

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL)] Leclercq-Meyer V, Malaisse WJ *Diabete Metab* 1: 119-22, Jun 75 (Fre) DL/77FEB93

GASTRIC INHIBITORY POLYPEPTIDE (GIP) IN MATURITY-ONSET DIABETES MELLITUS. Crockett SE, Mazzaferri EL, Cataland S *Diabetes* 25: 931-5, Oct 76 (Eng) DL/77FEB99

EPIDEMIOLOGIC FINDINGS ON THE RELATIONSHIP OF TIME OF DAY AND TIME SINCE LAST MEAL TO GLUCOSE TOLERANCE. Mayer KH, Stamler J, Dyer A, Freinkel N, Stamler M, Berkson DM, Farber B *Diabetes* 25: 936-43, Oct 76 (Eng) DL/77FEB100

HYPERINSULINEMIA AND HYPERGLUCAGONEMIA FOLLOWING PANCREATIC ISLET TRANSPLANTATION IN DIABETIC RATS. Weber CJ, Hardy MA, Lerner RL, Felig P, Reemsma K *Diabetes* 25: 944-8, Oct 76 (Eng) DL/77FEB101

EFFECTS OF ACUTE INSULIN WITHDRAWAL AND ADMINISTRATION ON PLASMA GLUCAGON RESPONSES TO INTRAVENOUS ARGININE IN INSULIN-DEPENDENT DIABETIC

SUBJECTS. Gerich JE, Lorenzi M, Tsalkian E, Bohannon NV, Schneider V, Karam JH, Forsham PH *Diabetes* 25: 955-60, Oct 76 (Eng) DL/77FEB103

IMPAIRED PLASMA INSULIN RESPONSE TO ARGININE IN HYPERTHYROIDISM. IMPORTANT ROLE OF THE RISE OF BLOOD GLUCOSE IN THE SECOND PHASE OF INSULIN RELEASE INDUCED BY ARGININE. Imura H, Seino Y, Ikeda M, Taminato T, Miyamoto Y *Diabetes* 25: 961-8, Oct 76 (Eng) DL/77FEB104

MODULATION OF FATTY ACID METABOLISM BY GLUCAGON IN MAN. IV. EFFECTS OF A PHYSIOLOGIC HORMONE INFUSION IN NORMAL MAN. Schade DS, Eaton RP *Diabetes* 25: 978-83, Oct 76 (Eng) DL/77FEB107

BLOOD GLUCOSE MONITORING IN SYMPTOMATIC HYPOGLYCEMIA. Cole RA, Benedict GW, Margolis S, Kowarski A *Diabetes* 25: 984-8, Oct 76 (Eng) DL/77FEB108

EFFECT OF SOMATOSTATIN ON METABOLIC AND HORMONAL CHANGES INDUCED BY NICOTINIC ACID IN INSULIN-DEPENDENT DIABETICS. Luyckx AS, Lefebvre PJ *Diabetologia* 12: 447-53, Oct 76 (Eng) DL/77FEB113

CLINICAL INVESTIGATION ON ABNORMAL GLUCOSE TOLERANCE IN LIVER CIRRHOSIS. Kato K, Kikuchi S, Ito M *Gastroenterol Jpn* 11: 31-7, 1976 (Eng) DL/77FEB129

THE CONTRIBUTION OF THE PANCREAS AND THE INTESTINE TO THE REGULATION OF LIPOLYSIS IN BIRDS. 2. IMPAIRED LIPOLYTIC ACTIVITY OF PANCREATIC GLUCAGON IN THE ABSENCE OF EITHER THE PANCREAS OR THE INTESTINE IN THE CHICKEN. Krug E, Gross R, Mialhe P *Horm Metab Res* 8: 345-50, Sep 76 (Eng) DL/77FEB139

ADRENAL AND LIVER PARTICIPATION IN THE RATS POST-STRESS DIABETIC RESPONSE. Vargas I, Kawada ME *Horm Metab Res* 8: 383-8, Sep 76 (Eng) DL/77FEB144

THE INFLUENCE OF STREPTOZOTOCIN DIABETES ON ADRENAL FUNCTION IN MALE RATS. De Nicola AF, Fridman O, Del Castillo EJ, Foglia VG *Horm Metab Res* 8: 388-92, Sep 76 (Eng) DL/77FEB145

DECAY OF SUCCINATE DEHYDROGENASE ACTIVITY IN RAT SKELETAL MUSCLE FOLLOWING STREPTOZOTOCIN INJECTION. Armstrong RB, Ianuzzo CD *Horm Metab Res* 8: 392-4, Sep 76 (Eng) DL/77FEB146

THYROTOXIC PERIODIC PARALYSIS: A PECULIAR CASE WITH UNUSUAL DYSTONIC BEHAVIOR AND VARIABLE RELATIONS OF PARALYSIS TO SERUM POTASSIUM LEVELS. Kusakabe T, Yoshida M, Nishikawa M *J Clin Endocrinol Metab* 43: 730-40, Oct 76 (Eng) DL/77FEB167

GROWTH HORMONE RELEASE IN HUNTINGTONS DISEASE. PP. 252-60. Podolsky S, Leopold NA *In0 Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB181*

IN VIVO AND IN VITRO ACTIONS OF SYNTHETIC PART SEQUENCES OF HUMAN PITUITARY GROWTH HORMONE. PP. 41-9. Bornstein J *In0 Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB183*

THE MECHANISM OF HYPOGLYCEMIA DUE TO SEMISTARVATION IN THE RAT. Cacs C *J Nutr* 106: 1557-61, Nov 76 (Eng) DL/77FEB202

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

- [CLINICAL STUDIES ON INSULIN RESPONSE TO GLUCOSE TOLERANCE TEST IN PATIENTS WITH PULMONARY TUBERCULOSIS (AUTHORS TRANSL)] Oe N *Kekkaku* 51: 313-28, 15 Aug 76 (Jpn) DL/77FEB222
- PROPRANOLOL EFFECT ON PLASMA GLUCOSE, FREE FATTY ACID, INSULIN, AND GROWTH HORMONE IN GRAVES DISEASE. Ortigosa JL, Mendoza F, Argote RM, Garcia G, Cervantes C, Parra A *Metabolism* 25: 1201-7, Nov 76 (Eng) DL/77FEB260
- EVANESCENT EFFECTS OF HYPO- AND HYPERGLUCAGONEMIA ON BLOOD GLUCOSE HOMEOSTASIS. Sherwin R, Wahren J, Felig P *Metabolism* 25: 1381-3, Nov 76 (Eng) DL/77FEB278
- ROLE OF GLUCAGON IN PERINATAL GLUCOSE HOMEOSTASIS. Sperling M, Grajver LA, Leake R, Fisher DA *Metabolism* 25: 1385-6, Nov 76 (Eng) DL/77FEB279
- GLUCAGON AND LIPOPROTEINS. Eaton RP *Metabolism* 25: 1415-7, Nov 76 (Eng) [9] DL/77FEB286
- CENTRAL NERVOUS SYSTEM-MEDIATED STIMULATION OF GLUCAGON SECRETION IN THE DOG FOLLOWING 2-DEOXYGLUCOSE. Frohman LA, Nagai K *Metabolism* 25: 1449-52, Nov 76 (Eng) DL/77FEB295
- NEUTROSENSIN AND SUBSTANCE-P: EFFECTS ON PLASMA INSULIN AND GLUCAGON LEVELS. Brown M, Villalbar J, Vale W *Metabolism* 25: 1459-61, Nov 76 (Eng) DL/77FEB298
- EXTRAPANCREATIC GLUCAGON IN THE DOG. Vranic M, Engerman R, Doi K, Morita S, Yip CC *Metabolism* 25: 1469-73, Nov 76 (Eng) DL/77FEB302
- PLASMA GLUCAGON IN DIABETES RESULTING FROM TOTAL PANCREATECTOMY [PROCEEDINGS]. Bloom SR, Barnes AJ, Bryant MG, Alberti KG *Metabolism* 25: 1481-2, Nov 76 (Eng) DL/77FEB304
- IMMUNOREACTIVE GLUCAGON RESPONSES TO ARGinine IN THREE PANCREATECTOMIZED HUMANS. Palmer JP, Werner PL, Benson JW, Einsack JW *Metabolism* 25: 1483-5, Nov 76 (Eng) DL/77FEB305
- SOMATOSTATIN ANALOGS WITH SELECTED BIOLOGIC ACTIVITIES. Brown M, Rivier J, Vale W *Metabolism* 25: 1501-3, Nov 76 (Eng) DL/77FEB309
- METABOLIC EFFECTS OF LONG-TERM SOMATOSTATIN INFUSION IN MAN. Gerich JE *Metabolism* 25: 1505-7, Nov 76 (Eng) DL/77FEB310
- SOMATOSTATIN AND DIABETES: SUPPRESSION OF GLUCOSE ABSORPTION RATHER THAN STIMULATION OF GLUCOSE DISPOSAL. Felig P, Wahren J *Metabolism* 25: 1509-10, Nov 76 (Eng) DL/77FEB311
- THE EFFECTS OF GLUCAGON ADMINISTRATION TO NONDIABETIC AND DIABETIC. Unger RH, Aydin I, Nakabayashi H, Srikanth CB, Raskin P *Metabolism* 25: 1523-6, Nov 76 (Eng) DL/77FEB315
- EVIDENCE FOR AN INSULIN-INDEPENDENT ALPHA-CELL ABNORMALITY IN HUMAN DIABETES. Bennett PH, Aronoff SL, Unger RH *Metabolism* 25: 1527-9, Nov 76 (Eng) DL/77FEB316
- [LEUCINE-SENSITIVE HYPOGLYCAEMIA AND ITS TREATMENT WITH SCHIZOXIDE (AUTHORS TRANSL)] Reich H, Schunke W *Monatsschr Kinderheilk* 129: 673-6, Sep 76 (Ger) DL/77FEB321
- INSULIN SECRETION IN MIGRAINE: INFLUENCE ON THE BLOOD LEVELS OF TRYPTOPHAN. Poloni M, Nappi G, Bono G, Roggi C, Arpesella M, Virgilio P *Monogr Neural Sci* 3: 67-70, 1976 (Eng) DL/77FEB322
- [DIABETES AND THE THIRD LIFE-PERIOD] Codaccioli JL, Aprile N *Probl Actuels Endocrinol Nutr* serie 17: 167-83, 1973 (Fre) [62] DL/77FEB355
- [PROBLEMS IN GLYCOCOREGULATION AND SENESCENCE] Gommers A, Jeanjean M, Dehez-Delhay M *Probl Actuels Endocrinol Nutr* serie 17: 193-207, 1973 (Fre) DL/77FEB357
- ARTERIAL-HEPATIC VEIN GLUCOSE DIFFERENCES IN NORMAL AND DIABETIC MAN AFTER A GLUCOSE INFUSION AT REST AND AFTER EXERCISE. Maehlum S, Jervell J, Pruet ED *Scand J Clin Lab Invest* 36: 415-22, Sep 76 (Eng) DL/77FEB391
- ENERGY METABOLISM AND PROTEOLYSIS IN TRAUMATIZED AND SEPTIC MAN. Clowes GH Jr, O'Donnell TF, Blackburn GL, Maki TN *Surg Clin North Am* 56: 1169-84, Oct 76 (Eng) [53] DL/77FEB406
- EFFECTS OF TRIETHYLENETETRAMINE UPON THE METABOLISM AND TOXICITY OF 63NiCl₂ IN RATS. Sunderman FW Jr, Kasprzak K, Horak E, Gitlitz P, Onkelinx C *Toxicol Appl Pharmacol* 38: 177-88, Oct 76 (Eng) DL/77FEB414
- [BEHAVIOUR OF SERUM CONCENTRATIONS OF GLUCOSE, IMMUNOREACTIVE INSULIN AND POTASSIUM IONS IN NEWBORNS AFTER LONG TERM OR CRASH TREATMENTS WITH PARTUSISTEN OR PARTUSISTEN IN COMBINATION WITH ISOPTIN (AUTHORS TRANSL)] Weidinger H, Mohr D, Haller K, Hiltmann WD, Vogel M Z *Geburtshilfe Perinatol* 180: 258-65, Aug 76 (Ger) DL/77FEB439
- INSULIN KINETIC, GLUCOSE TOLERANCE, AND LIPID METABOLISM IN GENETICALLY SPONTANEOUS-HYPERTENSIVE RATS. Baumann R, Moritz V, Godicke W, Postnow JW, Ziegler M *Acta Biol Med Ger* 35: k 33-9, 1976 (Eng) DL/77FEB451
- SURGICAL REDUCTION OF ADIPOSE TISSUE IN THE MALE SPRAGUE-DAWLEY RAT. Kral JG *Am J Physiol* 231: 1090-6, Oct 76 (Eng) DL/77FEB475
- EFFECT OF SOMATOTROPIN UPON A FRESHWATER FISH, CHANNA PUNCTATUS (BLOCH). Gill TS *Anat Anz* 140: 199-201, 1976 (Eng) DL/77FEB485
- 1.E.1.4 BLOOD SUGAR, PHARMACODYNAMICS
- 1.E.2 GLUCOSE TOLERANCE TEST
- DETERIORATION IN GLUCOSE TOLERANCE FOLLOWING PROLONGED DIURETIC TREATMENT FOR HYPERTENSION [PROCEEDINGS]. Lewis PJ, Dollery CT, Kohner EM, Petrie A Br *J Clin Pharmacol* 2: 375p, Aug 75 (Eng) DL/77FEB5
- THE EFFECT OF ORAL TITRODRINE ON MATERNAL AND FETAL CARBOHYDRATE METABOLISM. Blouin D, Murray MA, Beard RW Br *J Obstet Gynaecol* 83: 711-5, Sep 76 (Eng) DL/77FEB8
- CLINICAL AND METABOLIC STUDIES IN CHILDREN OF DIABETIC-MOTHERS. Amendt P, Michaelis D, Hildmann W *Endokrinologie* 67: 351-61, 1976 (Eng) DL/77FEB70
- ELEVATED KIDNEY GLUCOSYLTRANSFERASE ACTIVITY IN GENETIC PRE-DIABETIC MICE. Reddi AS, Oppermann W, Reddy MP, Velasco CA, Camerini-Davalos RA *Experientia* 32: 1237-8, 15 Oct 76 (Eng) DL/77FEB75
- GASTRIC INHIBITORY POLYPEPTIDE (GIP) IN MATURITY-ONSET DIABETES MEL-LITUS. Crockett SE, Mazzaferrri EL, Cataland S *Diabetes* 25: 931-5, Oct 76 (Eng) DL/77FEB99
- EPIDEMIOLOGIC FINDINGS ON THE RELATIONSHIP OF TIME OF DAY AND TIME SINCE LAST MEAL TO GLUCOSE TOLERANCE. Mayer KH, Stamler J, Dyer A, Freinkel N, Stamler R, Berkson DM, Farber B *Diabetes* 25: 936-43, Oct 76 (Eng) DL/77FEB100
- BLOOD GLUCOSE MONITORING IN SYMPTOMATIC HYPOGLYCEMIA. Cole RA, Benedict GW, Margolis S, Kowarski A *Diabetes* 25: 984-8, Oct 76 (Eng) DL/77FEB108
- HUMAN C-PEPTIDE IMMUNOREACTIVITY (CPR) IN BLOOD AND URINE - EVALUATION OF A RADIOIMMUNOASSAY METHOD AND ITS CLINICAL APPLICATIONS. Kuzuya T, Saito T, Yoshida S, Matsuda A *Diabetologia* 12: 511-8, Oct 76 (Eng) DL/77FEB120
- CLINICAL INVESTIGATION ON ABNORMAL GLUCOSE TOLERANCE IN LIVER CIRRHOSIS. Kato K, Kikuchi S, Ito M *Gastroenterol Jpn* 11: 31-7, 1976 (Eng) DL/77FEB129
- A STUDY OF THE EFFECTS OF FASTING TIME ON THE ONE HOUR GLUCOSE TOLERANCE TEST. Parker RD *J Chronic Dis* 29: 667-76, Oct 76 (Eng) DL/77FEB165
- GROWTH HORMONE RELEASE IN HUNTINGTONS DISEASE. PP. 252-60. Podolsky S, Leopold NA In *O Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381* 1975. (Eng) DL/77FEB181
- IA STUDY OF ROENTGENOLOGIC AORTIC CALCIFICATION, GLUCOSE TOLERANCE, AND INSULIN SECRETORY RESPONSE (AUTHORS TRANSL)] Tanaka T, Seki A, Fujii J, Kuzuya N *J Jpn Soc Intern Med* 65: 569-74, 10 Jun 76 (Jpn) DL/77FEB195
- CATECHOLAMINE METABOLISM IN THIAMINE-DEFICIENT RATS. Iwata H *J Nutr Sci Vitaminol (Tokyo)* 22 SUPPL: 25-7, Aug 76 (Eng) DL/77FEB205
- RELATIONSHIPS BETWEEN MATERNAL GLUCOSE INTOLERANCE AND NEONATAL BLOOD GLUCOSE. Haworth JC, Dilling LA *J Pediatr* 89: 810-3, Nov 76 (Eng) DL/77FEB207
- DOMINANT INHERITANCE DIABETES MEL-LITUS. Tulloch JA, Adamson DG *J R Coll Physicians Lond* 11: 86-90, Oct 76 (Eng) DL/77FEB214
- [CLINICAL STUDIES ON INSULIN RESPONSE TO GLUCOSE TOLERANCE TEST IN PATIENTS WITH PULMONARY TUBERCULOSIS (AUTHORS TRANSL)] Oe N *Kekkaku* 51: 313-28, 15 Aug 76 (Jpn) DL/77FEB222
- ORAL GLUCOSE TOLERANCE TEST IN THE CYNOMOLGUS MONKEY (MACACA FASCICULARIS). Honjo S, Kondo Y, Cho F *Lab Anim Sci* 26: 771-6, Oct 76 (Eng) DL/77FEB231
- HYPERGLYCAEMIA AND DIABETES MEL-LITUS. Jarrett RJ, Keen H *Lancet* 2: 1009-12, 6 Nov 76 (Eng) DL/77FEB250
- METHYLGUANIDINE AND INSULIN RESPONSE IN PATIENTS ON MAINTENANCE HAEMODIALYSIS [LETTER]. Ferrannini E, Navalesi R, Pilo A, Morelli E *Lancet* 2: 1028-9, 6 Nov 76 (Eng) DL/77FEB252

Diabetes Literature—Hierarchical Index

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

- PROPRANOLOL EFFECT ON PLASMA GLUCOSE, FREE FATTY ACID, INSULIN, AND GROWTH HORMONE IN GRAVES DISEASE.** Ortigosa JL, Mendoza F, Argote RM, Garcia G, Cervantes C, Parra A *Metabolism* 25: 1201-7, Nov 76 (Eng) DL/77FEB260
- SOMATOSTATIN AND DIABETES: SUPPRESSION OF GLUCOSE ABSORPTION RATHER THAN STIMULATION OF GLUCOSE DISPOSAL.** Felig P, Wahren J *Metabolism* 25: 1509-10, Nov 76 (Eng) DL/77FEB311
- CARBOHYDRATE TOLERANCE AND OBESITY.** Bredidahi HD *Med J Aust* 1: 9-10, 19 Jun 76 (Eng) DL/77FEB319
- INSULIN SECRETION IN MIGRAINE: INFLUENCE ON THE BLOOD LEVELS OF TRYPTOPHAN.** Poloni M, Nappi G, Bono G, Roggi C, Arpesella M, Virgilio P *Monogr Neural Sci* 3: 67-70, 1976 (Eng) DL/77FEB322
- [CORRECT CHOICE AND USE OF MATHEMATICAL METHODS IN THE SOLUTION OF MEDICAL PROBLEMS]** Anonymous *Orv Hetil* 117: 2581-4, 17 Oct 76 (Hun) DL/77FEB334
- KETONIC DIET IN THE MANAGEMENT OF PYRUVATE DEHYDROGENASE DEFICIENCY.** Fark RE, Cederbaum SD, Blass JP, Gibson GE, Kark RA, Carrel RE *Pediatrics* 58: 713-21, Nov 76 (Eng) DL/77FEB338
- GLUCOSE TOLERANCE AND HORMONE REPLACEMENT THERAPY. A PRELIMINARY STUDY.** Sturdee DW, Gustafson RC, Moore B *Postgrad Med J* 52 SUPPL 6: 52-4, 1976 (Eng) DL/77FEB352
- [GLUCOSE TOLERANCE TESTS WITH ORAL GLUCOSE CHALLENGES OF 50 AND 100 GRAMS (AUTHORS TRANSL)]** Federico RD, Jablonka S, Mello EH, Reis LC *Rev Bras Pesqui Med Biol* 9: 213-6, Sep 76 (Por) DL/77FEB371
- [FATTY ACID PATTERNS AND GLUCOSE TOLERANCE IN HUNTINGTONS CHOREA (AUTHORS TRANSL)]** Schubotz R, Hausmann L, Kaffarnik H, Zehner J, Oepen H *Res Exp Med (Berl)* 167: 203-15, 2 Jul 76 (Ger) DL/77FEB376
- EFFECT OF HEPARIN ON INSULIN SECRETION IN VIVO AND IN VITRO.** Orosz L *Res Exp Med (Berl)* 167: 239-54, 2 Jul 76 (Eng) DL/77FEB377
- ARTERIAL-HEPATIC VEIN GLUCOSE DIFFERENCES IN NORMAL AND DIABETIC MAN AFTER A GLUCOSE INFUSION AT REST AND AFTER EXERCISE.** Maehlum S, Jervell J, Pruett ED *Scand J Clin Lab Invest* 36: 415-22, Sep 76 (Eng) DL/77FEB391
- INFLUENCE OF FAT INGESTION ON LECITHIN:CHOLESTEROL ACYL TRANSFER RATE IN PLASMA OF NORMAL PERSONS.** Wallentin L, Vikrot O *Scand J Clin Lab Invest* 36: 473-9, Sep 76 (Eng) DL/77FEB392
- [HL-A SYSTEM AND DIABETES MELLITUS]** Scherthaner G, Ludwig H, Eibl M, Erd W, Pacher M, Mayr WR *Schweiz Med Wochenschr* 106: 514-7, 10 Apr 76 (Ger) DL/77FEB394
- HYPOGLYCEMIA: THE UNDISEASE.** Blonde L, Riddick FA *Jr South Med J* 69: 1261-5, Oct 76 (Eng) DL/77FEB402
- IMPAIRED GLUCOSE FLOW IN BURNED PATIENTS WITH GRAM-NEGATIVE SEPSIS.** Wilmore DW, Mason AD Jr, Pruitt BA Jr *Surg Gynecol Obstet* 143: 720-4, Nov 76 (Eng) DL/77FEB408
- [EARLY STAGES OF DIABETES MELLITUS]** Dvorakova L *Vnitř Lek* 22: 910-8, Sep 76 (Cze) DL/77FEB426
- [COMPARATIVE STUDIES ON THE ORAL GLUCOSE TOLERANCE USING 50 AND 100G OF GLUCOSE WITH SPECIAL REFERENCE TO VARIOUS LIPID-METABOLISM PARAMETERS]** Meinel H, Wolff E *Z Aerztl Fortbild (Jena)* 70: 943-6, 1 Sep 76 (Ger) DL/77FEB437
- SERUM TRIGLYCERIDES AND FATTY ACID INCORPORATION INTO HUMAN ADIPOSE TISSUE (TIAT). THEIR RELATIONS WITH ADIPOSE TISSUE CHARACTERISTICS AND GLUCOSE TOLERANCE.** Walldius G *Acta Med Scand* 200: 409-21, 1976 (Eng) DL/77FEB460
- EFFECTS OF EXERCISE AND PHYSICAL TRAINING ON CARBOHYDRATE AND LIPID METABOLISM IN MAN.** Bjontorp P *Adv Cardiol* 18: 158-66, 1976 (Eng) DL/77FEB462
- INDUCTION OF GLYCOSURIA AND HYPERGLYCEMIA BY TOPICAL CORTICOSTEROID THERAPY.** Gomez EC, Frost P *Arch Dermatol* 112: 1559-62, Nov 76 (Eng) DL/77FEB489
- EFFECTS OF ARTERIAL VERSUS VENOUS SAMPLING ON ANALYSIS OF GLUCOSE KINETICS IN MAN.** McGuire EA, Helderman JH, Tobin JD, Andres R, Berman M *Biochem J* 157: 565-73, 1 Sep 76 (Eng) DL/77FEB500
- 1.E.3 HYPERGLYCEMIA**
- TREATMENT OF ASYMPTOMATIC DIABETES MELLITUS.** Reaven GM *Compr Ther* 2: 22-8, Nov 76 (Eng) DL/77FEB49
- ALPHA CELL FUNCTION IN DIABETES MELLITUS.** Gerich JE *Metabolism* 25: 1513-6, Nov 76 (Eng) DL/77FEB312
- [SIGNIFICANCE OF BLOOD SUGAR NORMALIZATION IN THE PREVENTION OF VASCULAR COMPLICATIONS IN DIABETES MELLITUS]** Tchobrousky G, Slama G *Rev Prat* 26: 3159-71, 11 Oct 76 (Fre) [17] DL/77FEB387
- 1.E.3.1 HYPERGLYCEMIA, BLOOD**
- FRAGMENTATION HAEMOLYSIS IN PATIENTS WITH SEVERE DIABETIC ANGIOPATHY.** Brunning RD, Jacob HS, Brenckman WD, Jimenez-Pasquau F, Goetz FC *Br J Haematol* 34: 283-9, Oct 76 (Eng) DL/77FEB7
- ADRENAL AND LIVER PARTICIPATION IN THE RATS POST-STRESS DIABETIC RESPONSE.** Vargas I, Kawada ME *Horm Metab Res* 8: 383-8, Sep 76 (Eng) DL/77FEB144
- [COMPARATIVE QUANTITATIVE RAPID DETERMINATION OF BLOOD SUGAR BY MEANS OF VARIOUS REFLECTOMETER-SYSTEMS]** Scherthaner G, Erd W, Sinzinger H, Penner E *Wien Med Wochenschr* 126: 571-4, 1 Oct 76 (Ger) DL/77FEB435
- URETHANE-INDUCED HYPERGLYCEMIA IN RATS.** Krzemien K, Lipowska-Zabawska L *Acta Physiol Pol* 27: 369-76, Jul-Aug 76 (Eng) DL/77FEB458
- EFFECTS OF ARTERIAL VERSUS VENOUS SAMPLING ON ANALYSIS OF GLUCOSE KINETICS IN MAN.** McGuire EA, Helderman JH, Tobin JD, Andres R, Berman M *Biochem J* 157: 565-73, 1 Sep 76 (Eng) DL/77FEB500
- 1.E.3.2 HYPERGLYCEMIA, CHEMICALLY INDUCED**
- [ETRAN (ENFLURANE) ANESTHESIA (LITERATURE SURVEY)]** Riabov GA, Semenov VN *Eksp Khir Anesteziol* 86-90, May-Jun 76 (Rus) DL/77FEB66
- THE ROLE OF NUTRITION IN HUMAN AGING.** PP. 29-45. Caster WO *In: Rockstein M, Sussman ML, ed. Nutrition, longevity, and aging. New York, Academic Press, 1976. WT 104 N977 1976. (Eng) [71] DL/77FEB192*
- URETHANE-INDUCED HYPERGLYCEMIA IN RATS.** Krzemien K, Lipowska-Zabawska L *Acta Physiol Pol* 27: 369-76, Jul-Aug 76 (Eng) DL/77FEB458
- INDUCTION OF GLYCOSURIA AND HYPERGLYCEMIA BY TOPICAL CORTICOSTEROID THERAPY.** Gomez EC, Frost P *Arch Dermatol* 112: 1559-62, Nov 76 (Eng) DL/77FEB489
- 1.E.3.3 HYPERGLYCEMIA, COMPLICATIONS**
- HYPERGLYCAEMIA AND HYPOGLYCAEMIA DURING PREGNANCY [EDITORIAL].** Anonymous *Lancet* 2: 889-90, 23 Oct 76 (Eng) DL/77FEB246
- HYPERGLYCAEMIA AND DIABETES MELLITUS.** Jarrett RJ, Keen H *Lancet* 2: 1009-12, 6 Nov 76 (Eng) DL/77FEB250
- SMOKING AND OTHER RISK FACTORS FOR CORONARY HEART-DISEASE IN BRITISH CIVIL SERVANTS.** Reid DD, Hamilton PJ, McCartney P, Rose G, Jarrett RJ, Keen H *Lancet* 2: 979-84, 6 Nov 76 (Eng) DL/77FEB253
- DIABETIC POLYNEUROPATHY: THE IMPORTANCE OF INSULIN DEFICIENCY, HYPERGLYCEMIA AND ALTERATIONS IN MYOINOSITOL METABOLISM IN ITS PATHOGENESIS.** Winegrad AI, Greene DA *N Engl J Med* 295: 1416-21, 16 Dec 76 (Eng) DL/77FEB326
- [PLACE AND RESPONSIBILITY OF VASCULAR LESIONS IN DIABETIC NEUROPATHIES]** Pirat J *Rev Prat* 26: 3149-56, 11 Oct 76 (Fre) [61] DL/77FEB386
- 1.E.3.4 HYPERGLYCEMIA, DIAGNOSIS**
- HYPERGLYCAEMIA AND DIABETES MELLITUS.** Jarrett RJ, Keen H *Lancet* 2: 1009-12, 6 Nov 76 (Eng) DL/77FEB250
- 1.E.3.5 HYPERGLYCEMIA, DRUG THERAPY**
- DIABETIC POLYNEUROPATHY: THE IMPORTANCE OF INSULIN DEFICIENCY, HYPERGLYCEMIA AND ALTERATIONS IN MYOINOSITOL METABOLISM IN ITS PATHOGENESIS.** Winegrad AI, Greene DA *N Engl J Med* 295: 1416-21, 16 Dec 76 (Eng) DL/77FEB326
- 1.E.3.6 HYPERGLYCEMIA, ETIOLOGY**
- REACTIVE HYPERGLYCAEMIA IN PATIENTS WITH ACUTE STROKE.** Melamed E *J Neurol Sci* 29: 267-75, Oct 76 (Eng) DL/77FEB200
- 1.E.3.7 HYPERGLYCEMIA, METABOLISM**
- HORMONAL RESPONSES AND THEIR EFFECT ON METABOLISM.** Wilmore DW *Surg Clin North Am* 56: 999-1018, Oct 76 (Eng) DL/77FEB407
- 1.E.3.8 HYPERGLYCEMIA, PHYSIOPATHOLOGY**
- 1.E.3.9 HYPERGLYCEMIA, URINE**
- 1.E.4 GLYCOSURIA**

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

[STUDY OF THE FUCOSE-RICH OLIGOSACCHARIDES IN THE URINE OF HEALTHY AND MELTITIC SUBJECTS WITH A, B AND O BLOOD GROUPS] Strecker G, Trentesaux-Chauvet C, Poitou A, Montreuil J *Biochimie* 58: 805-14, 1976 (Fre) DL/77FEB11

ADRENAL AND LIVER PARTICIPATION IN THE RATS POST-STRESS DIABETIC RESPONSE. Vargas I, Kawada ME *Horm Metab Res* 8: 383-8, Sep 76 (Eng) DL/77FEB144

[THE DETERMINATION OF GLUCOSE IN URINE] Poge AW *Z Med Labortech* 17: 59-78, 1976 (Ger) DL/77FEB441

[CURRENT URINALYSIS] Neuhauser P *Zahnärztl Mitt* 66: 1044-6, 16 Oct 76 (Ger) DL/77FEB446

1.E.4.1 GLYCOSURIA, CHEMICALLY INDUCED

URETHANE-INDUCED HYPERGLYCEMIA IN RATS. Krzemien K, Lipowska-Zabawska L *Acta Physiol Pol* 27: 369-76, Jul-Aug 76 (Eng) DL/77FEB458

MECHANISM OF MALEIC ACID-INDUCED GLUCOSURIA IN DOG KIDNEY. Silverman M, Huang L *Am J Physiol* 231: 1024-32, Oct 76 (Eng) DL/77FEB472

INDUCTION OF GLYCOSURIA AND HYPERGLYCEMIA BY TOPICAL CORTICOSTEROID THERAPY. Gomez EC, Frost P *Arch Dermatol* 112: 1559-62, Nov 76 (Eng) DL/77FEB489

1.E.4.2 GLYCOSURIA, COMPLICATIONS

1.E.4.3 GLYCOSURIA, DIAGNOSIS

[COMPARISON OF VARIOUS SEMI-QUANTITATIVE TESTS FOR DETERMINATION OF URINARY GLUCOSE IN DIABETICS (AUTHORS TRANSL.)] Dorchy H, Loeb H *Diabete Metab* 1: 87-9, Jun 75 (Fre) DL/77FEB96

1.E.4.4 GLYCOSURIA, DRUG THERAPY

1.E.4.5 GLYCOSURIA, ENZYMOLOGY

1.E.4.6 GLYCOSURIA, ETIOLOGY

HYPERALIMENTATION IN THE MANAGEMENT OF CHRONIC INFLAMMATORY INTESTINAL DISEASE. Dean RE, Campos MM, Barrett B *Dis Colon Rectum* 19: 601-4, Oct 76 (Eng) DL/77FEB62

SUPPRESSION OF FOOD INTAKE IN DIABETIC RATS BY VOLUNTARY CONSUMPTION AND INTRAHYPOTHALAMIC INJECTION OF GLUCOSE. Panksepp J, Meeker R *Physiol Behav* 16: 763-70, Jun 76 (Eng) DL/77FEB366

1.E.4.7 GLYCOSURIA, METABOLISM

MECHANISM OF MALEIC ACID-INDUCED GLUCOSURIA IN DOG KIDNEY. Silverman M, Huang L *Am J Physiol* 231: 1024-32, Oct 76 (Eng) DL/77FEB472

1.E.4.8 GLYCOSURIA, OCCURRENCE

1.E.5 GLYCOSURIA, RENAL

MODE OF PRESENTATION OF JUVENILE DIABETES. Hamilton DV, Mundia SS, Lister J *Br Med J* 2: 211-2, 24 Jul 76 (Eng) DL/77FEB20

1.E.6 HYPOGLYCEMIA

HYPOGLYCAEMIA IN CHILDREN UNDERGOING OPERATIONS [LETTER]. Simpson JC *Br Med J* 2: 758, 25 Sep 76 (Eng) DL/77FEB25

THE MANAGEMENT OF DIABETES IN THE ELDERLY. Walsh CH *Compr Ther* 2: 38-46, Nov 76 (Eng) DL/77FEB51

POSTMATURITY IN THE RAT: IMPAIRMENT OF INSULIN, GLUCAGON, AND GLYCOGEN STORES. Portha B, Rosselin G, Picon I. *Diabetologia* 12: 429-36, Oct 76 (Eng) DL/77FEB110

CLINICAL CORRELATIONS OF SERUM PROINSULIN-LIKE MATERIAL IN ISLET CELL TUMOURS. Alsever RN, Stjernholm MR, Sussman KE, Mako ME, Rubenstein AH *Diabetologia* 12: 527-30, Oct 76 (Eng) DL/77FEB123

[INSULIN-DEPENDENT DIABETES DURING THE THIRD LIFE-PERIOD] Hoet JJ *Probl Actuels Endocrinol Nutr serie* 17: 185-91, 1973 (Fre) DL/77FEB356

RESEARCH ACHIEVEMENTS OF THE UNIVERSITY OF NATAL MEDICAL SCHOOL, 1951-1976. Adams EB *S Afr Med J* 50: 1577-85, 25 Sep 76 (Eng) DL/77FEB405

[BEHAVIOUR OF SERUM CONCENTRATIONS OF GLUCOSE, IMMUNOREACTIVE INSULIN AND POTASSIUM IONS IN NEWBORNS AFTER LONG TERM OR CRASH TREATMENTS WITH PARTUSISTEN OR PARTUSISTEN IN COMBINATION WITH ISOPTIN (AUTHORS TRANSL.)] Weidinger H, Mohr D, Haller K, Hiltmann WD, Vogel M *Z Geburtshilfe Perinatol* 180: 258-65, Aug 76 (Ger) DL/77FEB439

PANCREATIC ISLET CELL CARCINOMA IN A DOG TREATED WITH STREPTOZOTOCIN. Meyer DJ *Am J Vet Res* 37: 1221-3, Oct 76 (Eng) DL/77FEB487

1.E.6.1 HYPOGLYCEMIA, BLOOD

BLOOD GLUCOSE MONITORING IN SYMPTOMATIC HYPOGLYCEMIA. Cole RA, Benedict GW, Margolis S, Kowarski A *Diabetes* 25: 984-8, Oct 76 (Eng) DL/77FEB108

NEUROENDOCRINE CONTROL OF GROWTH HORMONE SECRETION: EXPERIMENTAL AND CLINICAL STUDIES. PP. 236-51. Luzzi A, Panerai AE, Chiodini PG, Secchi C, Cocchi D, Botalla L, Silvestrini F, Muller EE *In0 Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB185*

HETEROGENEITY OF PLASMA IMMUNOREACTIVE GLUCAGON. Valverde I, Villanueva ML *Metabolism* 25: 1393-5, Nov 76 (Eng) DL/77FEB281

[COMPARATIVE QUANTITATIVE RAPID DETERMINATION OF BLOOD SUGAR BY MEANS OF VARIOUS REFLECTOMETER-SYSTEMS] Schernthaner G, Erd W, Sinzinger H, Penner E *Wien Med Wochenschr* 126: 571-4, 1 Oct 76 (Ger) DL/77FEB435

GROWTH HORMONE IN EXERCISE: COMPARISON OF PHYSIOLOGICAL AND PHARMACOLOGICAL STIMULI. Sutton J, Lazarus L *Biochem J* 157: 523-7, 1 Sep 76 (Eng) DL/77FEB498

1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED

BLOOD SUGAR AND BETA-BLOCKERS [LETTER]. Deacon SP *Br Med J* 2: 1012, 23 Oct 76 (Eng) DL/77FEB31

[ACUTE SIDE-EFFECTS OF DRUGS. CAUSES AND PREVENTION] Bartels O *Fortschr Med* 94: 1532-40, 1543, 7 Oct 76 (Ger) DL/77FEB134

DRUG INDUCED HYPOGLYCEMIA AND HYPOTHERMIA. Carter WP Jr *J Maine Med Assoc* 67: 272, 279, Sep 76 (Eng) DL/77FEB197

HETEROGENEITY OF PLASMA IMMUNOREACTIVE GLUCAGON. Valverde I, Villanueva ML *Metabolism* 25: 1393-5, Nov 76 (Eng) DL/77FEB281

[ROLE OF PERHEXILINE MALEATE AND BETA BLOCKING AGENTS IN THE DEVELOPMENT OF SEVERE HYPOGLYCEMIA (LETTER)] Sudre Y, Becq-Giraudon B, Pouget-Abadie JF, Demange J, Boutaud PH *Nouv Presse Med* 5: 1999, 25 Sep 76 (Fre) DL/77FEB341

[DRUG-INDUCED HYPOGLYCEMIA IN DIABETIC PATIENTS] Gay G, Debry G *Nouv Presse Med* 5: 2156-8, 9 Oct 76 (Fre) DL/77FEB344

NEUROENDOCRINE STUDIES OF DEPRESSIVE ILLNESS. Sachar EJ, Roffwarg HP, Gruen PH, Altman N, Sassin J *Pharmakopsychiatr Neuropsychopharmacol* 9: 11-7, Jan 76 (Eng) DL/77FEB363

[RESULTS OF TREATMENT OF DIABETES IN SIPIDUS WITH PFIZERS DIABINESE (AUTHORS TRANSL.)] Chęcinska Z, Galazka A, Gruska S, Stepień M, Milewicz A, Szklarz E *Przegl Lek* 33: 697-9, 1976 (Pol) DL/77FEB370

[INSULIN HYPOGLYCEMIA DURING TREATMENT OF DIABETES MELLITUS IN CHILDREN] Jokanovic R, Nikezić M *Srp Arh Celok Lek* 104: 49-56, Jan 76 (Ser) DL/77FEB404

[BLOOD GLUCOSE LEVELS IN PATIENTS ON HEMODIALYSIS DURING PROPRANOLOL (INDERAL) TREATMENT] Jensen HA, Laursen PA, Møller BB *Ugeskr Laeger* 138: 2956-7, 15 Nov 76 (Dan) DL/77FEB418

[NEONATAL HYPOGLYCEMIA FOLLOWING BETA BLOCKER TREATMENT IN PREGNANCY] Forthoft B, Jacobsen JR *Ugeskr Laeger* 138: 2958-9, 15 Nov 76 (Dan) DL/77FEB419

[BETA RECEPTOR BLOCKING AGENTS, INSULIN AND HYPOGLYCEMIA] Froland A *Ugeskr Laeger* 138: 2970, 15 Nov 76 (Dan) DL/77FEB420

SOME NEW ASPECTS ON THE INTERACTION OF HYPOGLYCEMIA-PRODUCING BIGUANIDES WITH BIOLOGICAL MEMBRANES. Schäfer G *Biochem Pharmacol* 25: 2015-24, 15 Sep 76 (Eng) DL/77FEB512

1.E.6.3 HYPOGLYCEMIA, COMPLICATIONS

DRUG INDUCED HYPOGLYCEMIA AND HYPOTHERMIA. Carter WP Jr *J Maine Med Assoc* 67: 272, 279, Sep 76 (Eng) DL/77FEB197

TREATMENT OF STATUS EPILEPTICUS [LETTER]. Anonymous *JAMA* 236: 2173-4, 8 Nov 76 (Eng) DL/77FEB218

HYPERGLYCAEMIA AND HYPOGLYCAEMIA DURING PREGNANCY [EDITORIAL]. Anonymous *Lancet* 2: 889-90, 23 Oct 76 (Eng) DL/77FEB246

MATERNAL MORTALITY IN DIABETES MELLITUS: AN 18-YEAR SURVEY. Gabbe SG, Mestman JH, Hibbard LT *Obstet Gynecol* 48: 549-51, Nov 76 (Eng) DL/77FEB331

PROTEIN-ENERGY MALNUTRITION. DeMaeyer EM *WHO Monogr Ser* 23-54, 1976 (Eng) [46] DL/77FEB430

Diabetes Literature—Hierarchical Index

1.E.6.4 HYPOGLYCEMIA, DIAGNOSIS

BLOOD GLUCOSE MONITORING IN SYMPTOMATIC HYPOGLYCEMIA. Cole RA, Benedict GW, Margolis S, Kowarski A *Diabetes* 25: 984-8, Oct 76 (Eng) DL/77FEB108

THE SUGAR CONNECTION. REACTIVE HYPOGLYCEMIAS AND IMMUNOREACTIVE INSULIN ASSAY. Shah S *J Kans Med Soc* 77: 494, 516, Nov 76 (Eng) DL/77FEB196

DISORDERS OF CARBOHYDRATE METABOLISM IN INFANCY. Cornblath M, Schwartz R *Major Probl Clin Pediatr* 3: 1-483, 1976 (Eng) DL/77FEB235

HYPOGLYCEMIA: THE UNDISCLOSED. Blonde L, Riddick FA Jr *South Med J* 69: 1261-5, Oct 76 (Eng) DL/77FEB402

1.E.6.5 HYPOGLYCEMIA, DRUG THERAPY

DISORDERS OF CARBOHYDRATE METABOLISM IN INFANCY. Cornblath M, Schwartz R *Major Probl Clin Pediatr* 3: 1-483, 1976 (Eng) DL/77FEB235

[LEUCINE-SENSITIVE HYPOGLYCAEMIA AND ITS TREATMENT WITH DIAZOXIDE (AUTHORS TRANSL)] Reich H, Schunke W *Monatsschr Kinderheilkd* 129: 673-6, Sep 76 (Ger) DL/77FEB321

1.E.6.6 HYPOGLYCEMIA, ETIOLOGY

HYPOGLYCEMIA AND HYPOINSULINEMIA ASSOCIATED WITH HEPATOMA IN A DOG. Strombeck DR, Krum S, Meyer D, Kappesser RM *J Am Vet Med Assoc* 169: 811-2, 15 Oct 76 (Eng) DL/77FEB152

[GIANT TUMOR OF THE MEDIASTINUM ASSOCIATED WITH HYPOGLYCEMIA: STUDY OF HYPOGLYCEMIA CAUSED BY EXTRA-PANCREATIC TUMOR] Ishikawa S, Suzuki R, Onishi T *Jpn Assoc Thorac Surg* 24: 967-75, Jul 76 (Jpn) DL/77FEB194

THE MECHANISM OF HYPOGLYCEMIA DUE TO SEMISTARVATION IN THE RAT. Cacs C *J Nutr* 106: 1557-61, Nov 76 (Eng) DL/77FEB202

RELATIONSHIPS BETWEEN MATERNAL GLUCOSE INTOLERANCE AND NEONATAL BLOOD GLUCOSE. Haworth JC, Dilling LA *J Pediatr* 89: 810-3, Nov 76 (Eng) DL/77FEB207

[LEUCINE-SENSITIVE HYPOGLYCAEMIA AND ITS TREATMENT WITH DIAZOXIDE (AUTHORS TRANSL)] Reich H, Schunke W *Monatsschr Kinderheilkd* 129: 673-6, Sep 76 (Ger) DL/77FEB321

METHYLMALONIC ACIDURIA AND HYPOGLYCEMIA [LETTER]. Garnica A, Desrosiers P, Sargent T *N Engl J Med* 295: 1136-7, 11 Nov 76 (Eng) DL/77FEB323

[HYPOGLYCAEMIA (AUTHORS TRANSL)] Uebbersax R, Jeannmonod D, Meyrat CA *Praxis* 65: 504-9, 27 Apr 76 (Fre) DL/77FEB354

HUMOR MANIFESTATIONS OF NEOPLASMS. Bartuska DG *Semin Oncol* 2: 405-9, Dec 75 (Eng) DL/77FEB401

HYPOGLYCEMIA: THE UNDISCLOSED. Blonde L, Riddick FA Jr *South Med J* 69: 1261-5, Oct 76 (Eng) DL/77FEB402

1.E.6.7 HYPOGLYCEMIA, METABOLISM

THE MECHANISM OF HYPOGLYCEMIA DUE TO SEMISTARVATION IN THE RAT. Cacs C *J Nutr* 106: 1557-61, Nov 76 (Eng) DL/77FEB202

1.E.6.8 HYPOGLYCEMIA, PHYSIOPATHOLOGY

[ROLE OF PERHEXILINE MALEATE AND BETA BLOCKING AGENTS IN THE DEVELOPMENT OF SEVERE HYPOGLYCEMIA (LETTER)] Sudre Y, Becq-Giraudon B, Pouget-Abadie JF, Demange J, Boudaud PH *Nouv Presse Med* 5: 1999, 25 Sep 76 (Fre) DL/77FEB341

1.E.6.9 HYPOGLYCEMIA, THERAPY

DISORDERS OF CARBOHYDRATE METABOLISM IN INFANCY. Cornblath M, Schwartz R *Major Probl Clin Pediatr* 3: 1-483, 1976 (Eng) DL/77FEB235

HYPOGLYCEMIA: THE UNDISCLOSED. Blonde L, Riddick FA Jr *South Med J* 69: 1261-5, Oct 76 (Eng) DL/77FEB402

1.F DIABETES

1.F.1 ALLOXAN DIABETES (SEE SEC. 1.F.10.2)

1.F.2 DIABETES MELLITUS

MODE OF PRESENTATION OF JUVENILE DIABETES. Hamilton DV, Mundia SS, Lister J *Br Med J* 2: 211-2, 24 Jul 76 (Eng) DL/77FEB20

THE EVOLVING PICTURE OF DIABETES. Eilenberg M *Compr Ther* 2: 9-15, Nov 76 (Eng) DL/77FEB55

INSULIN RESISTANT DIABETES MELLITUS WITHOUT THE PRESENCE OF INSULIN ANTIBODIES. A CASE REPORT. Pav J, Sramkova J, Matys Z *Endokrinologie* 67: 373-6, 1976 (Eng) DL/77FEB71

PLASMA RENIN ACTIVITY AND HYPERTENSION IN DIABETES MELLITUS. Christlieb AR, Kaldany A, Delia JA *Diabetes* 25: 969-74, Oct 76 (Eng) DL/77FEB105

[HIGH RISK FACTORS OF BREAST CANCER] Hardy A, Loriaux C *J Gynecol Obstet Biol Reprod (Paris)* 5: 657-73, Jul - Aug 76 (Fre) [89] DL/77FEB177

[DIABETES AND THE THIRD LIFE-PERIOD] Codaccioni JL, Aprile N *Probl Actuels Endocrinol Nutr serie* 17: 167-83, 1973 (Fre) [62] DL/77FEB355

A MICROSURGICAL TECHNIQUE FOR ORTHOTOPIC OVARIAN TRANSPLANTATION IN THE CHINESE HAMSTER. Schmidt FL, Miller RL, Peterson T, Soret MG *Surgery* 80: 595-600, Nov 76 (Eng) DL/77FEB409

INTENSIVE CARE OF THE PREGNANT DIABETIC. Gugliucci CL, OSullivan MJ, Opperman W, Gordon M, Stone ML *Am J Obstet Gynecol* 125: 435-41, 15 JUN 76 (Eng) DL/77FEB469

1.F.2.1 DIABETES MELLITUS, JUVENILE

THE DEVELOPING DIABETIC IDENTITY: A STUDY OF FAMILY INFLUENCE. Benoliel JQ *Commun Nurs Res* 3: 14-32, Sep 70 (Eng) DL/77FEB56

CRITIQUE OF THE DEVELOPING DIABETIC IDENTITY: A STUDY OF FAMILY INFLUENCE. Gunter LM *Commun Nurs Res* 3: 33-40, Sep 70 (Eng) DL/77FEB57

1.F DIABETES

DIET THERAPY IN THE U.S. IN THE PAST 200 YEARS. A BICENTENNIAL STUDY. Ohlson MA *J Am Diet Assoc* 69: 490-7, Nov 76 (Eng) DL/77FEB171

1.F.3 DIABETES, BIOCHEMISTRY RELATED

1.F.3.1 DIABETES, METABOLISM

THE 14C-GLYCOCHOLATE TEST IN DIABETIC DIARRHOEA. Scarpello JH, Hague RV, Cullen DR, Sladen GE *Br Med J* 2: 673-5, 18 Sep 76 (Eng) DL/77FEB23

IDENTIFICATION AND CHARACTERIZATION OF THE INSULIN RECEPTOR IN THE R3230AC MAMMARY ADENOCARCINOMA OF THE RAT. Harmon JT, Hilf R *Cancer Res* 36: 3993-4000, Nov 76 (Eng) DL/77FEB37

INSULIN RESISTANT DIABETES MELLITUS WITHOUT THE PRESENCE OF INSULIN ANTIBODIES. A CASE REPORT. Pav J, Sramkova J, Matys Z *Endokrinologie* 67: 373-6, 1976 (Eng) DL/77FEB71

KINETICS OF INSULIN SECRETION IN CHRONIC PANCREATITIS AND MILD MATURITY ONSET DIABETES. (EVIDENCE FOR GUT HORMONE ACTION BEYOND GLUCORECEPTOR AND CYCLIC ADENOSINE MONOPHOSPHATE MEDIATED INSULIN RELEASE). Botha JL, Vinik AI, Blake KC, Jackson WP *Eur J Clin Invest* 6: 365-72, 10 Sep 76 (Eng) DL/77FEB72

PLASMA RENIN ACTIVITY AND HYPERTENSION IN DIABETES MELLITUS. Christlieb AR, Kaldany A, Delia JA *Diabetes* 25: 969-74, Oct 76 (Eng) DL/77FEB105

HUMAN C-PEPTIDE IMMUNOREACTIVITY (CPR) IN BLOOD AND URINE - EVALUATION OF A RADIOIMMUNOASSAY METHOD AND ITS CLINICAL APPLICATIONS. Kuzuya T, Saito T, Yoshida S, Matsuda A *Diabetologia* 12: 511-8, Oct 76 (Eng) DL/77FEB120

IS DIABETES A FORM OF ACCELERATED AGING? Kent S *Geriatrics* 31: 140, 145, 149-51, Nov 76 (Eng) DL/77FEB131

GAS CHROMATOGRAPHIC STUDY OF FREE POLYOLS AND ALDOSES IN CATARACTOUS HUMAN LENS TISSUE. Pfaffenberger CD, Szafrancik J, Horning EC *J Chromatogr* 126: 535-45, 3 Nov 76 (Eng) DL/77FEB164

THE ROLE OF NUTRITION IN HUMAN AGING. PP. 29-45. Caster WO *In* O Rockstein M, Sussman ML, ed. *Nutrition, longevity, and aging*. New York, Academic Press, 1976. WT 104 N977 1976. (Eng) [71] DL/77FEB192

THE MICROANATOMY OF THE ISLETS OF LANGERHANS. Orci L *Metabolism* 25: 1303-13, Nov 76 (Eng) [30] DL/77FEB262

AN IMPORTANT ROLE FOR GLUCAGON IN THE REGULATION OF GLUCOSE PRODUCTION IN VIVO. Liljenquist JE, Chiassan JL, Cherrington AD, Keller U, Jennings AS, Bomboy JD, Lacy WW *Metabolism* 25: 1371-3, Nov 76 (Eng) DL/77FEB276

THE ROLE OF GLUCAGON-INSULIN INTERACTIONS IN CONTROL OF GLUCOSE TURNOVER AND ITS SIGNIFICANCE IN DIABETES. Vranic M, Ross G, Doi K, Lickley L *Metabolism* 25: 1375-80, Nov 76 (Eng) DL/77FEB277

[BIOCHEMICAL AND CLINICAL ASPECTS OF MYOINOSITOL] Trznadel K, Lutz W *Pol Tyg Lek* 31: 1857-9, 25 OCT 76 (Pol) [27] DL/77FEB351

1.F DIABETES

PHYSIOLOGY AND PATHOPHYSIOLOGY OF GLUCAGON. Unger RH, Orci L *Physiol Rev* 56: 778-826, Oct 76 (Eng) [164] DL/77FEB365

EFFECT OF CHRONIC GLUCAGON-ADMINISTRATION ON THE DIGESTIVE AND ABSORPTIVE FUNCTION OF RAT SMALL INTESTINE IN VIVO. Caspary WF, Lucke H *Res Exp Med (Berl)* 167: 1-13, 27 Feb 76 (Eng) DL/77FEB373

METABOLISM OF MALTOSE DURING SURGERY IN PATIENTS WITH DIABETES MELLITUS UNDER GENERAL ANESTHESIA. Yoshikawa K, Oda T *Res Exp Med (Berl)* 167: 127-38, 15 May 76 (Eng) DL/77FEB374

[GLUCOSE-ALANINE CYCLE] Labadie P *Rev Prat* 26: 3023-30, 1 Oct 76 (Fre) DL/77FEB379

[AMOUNT OF ACETONE AND ETHYL ALCOHOL IN THE BLOOD AND URINE OF PATIENTS WITH DIABETES MELLITUS AND ISCHEMIC HEART DISEASE] Kamyshova EP, Sorochkina RM, Kapatsinskaya LK, Romanova LN, Danilova MI *Sov Med* 147-8, Apr 76 (Rus) DL/77FEB403

EFFECTS OF DIABETES ON INTESTINAL MAGNESIUM ABSORPTION IN THE RAT. Miller DL, Schedl HP *Am J Physiol* 231: 1039-42, Oct 76 (Eng) DL/77FEB473

THE ROLE OF ABNORMALITIES IN NERVE METABOLISM IN THE PATHOGENESIS OF DIABETIC PERIPHERAL NEUROPATHY. Clements RS *Ala J Med Sci* 13: 399-404, Oct 76 (Eng) DL/77FEB478

1.F.3.2 DIABETES, ENZYMOLOGY

ELEVATED KIDNEY GLUCOSYLTRANSFERASE ACTIVITY IN GENETIC PRE-DIABETIC MICE. Reddi AS, Oppermann W, Reddy MP, Velasco CA, Camerini-Davalos RA *Experientia* 32: 1237-8, 15 Oct 76 (Eng) DL/77FEB75

DECAY OF SUCCINATE DEHYDROGENASE ACTIVITY IN RAT SKELETAL MUSCLE FOLLOWING STREPTOZOTOCIN INJECTION. Armstrong RB, Iannuzzo CD *Horm Metab Res* 8: 392-4, Sep 76 (Eng) DL/77FEB146

3-OXO ACID COENZYME A-TRANSFERASE IN NORMAL AND DIABETIC RAT MUSCLE. Fenselau A, Wallis K *Biochem J* 158: 509-12, 15 Aug 76 (Eng) DL/77FEB507

1.F.3.3 DIABETES, BLOOD

THE INFLUENCE OF INSULIN ON THE PROPORTION OF NEUTRAL SUGARS IN SERUMUCOID OF DIABETIC PATIENTS. Guzek A, Ciba T, Sarnecka-Keller M *Clin Chim Acta* 72: 401-4, 1 Nov 76 (Eng) DL/77FEB44

INFLUENCE OF METFORMIN ON ARGININE-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ *Diabete Metab* 1: 23-8, Mar 75 (Eng) DL/77FEB84

HYPERINSULINEMIA AND HYPERGLUCAGONEMIA FOLLOWING PANCREATIC ISLET TRANSPLANTATION IN DIABETIC RATS. Weber CJ, Hardy MA, Lerner RL, Felig P, Reemtsma K *Diabetes* 25: 944-8, Oct 76 (Eng) DL/77FEB101

EFFECTS OF ACUTE INSULIN WITHDRAWAL AND ADMINISTRATION ON PLASMA GLUCAGON RESPONSES TO INTRAVENOUS ARGININE IN INSULIN-DEPENDENT DIABETIC SUBJECTS. Gerich JE, Lorenzi M, Tsalkian E, Bohannon NV, Schneider V, Karam JH, Forsham PH *Diabetes* 25: 955-60, Oct 76 (Eng) DL/77FEB103

LUTEINIZING RELEASE HORMONE TESTS IN IMPOTENT DIABETIC MALES. Wright AD, London DR, Holder G, Williams JW, Rudd BT *Diabetes* 25: 975-7, Oct 76 (Eng) DL/77FEB106

EFFECT OF SOMATOSTATIN ON METABOLIC AND HORMONAL CHANGES INDUCED BY NICOTINIC ACID IN INSULIN-DEPENDENT DIABETICS. Luyckx AS, Lefebvre PJ *Diabetologia* 12: 447-53, Oct 76 (Eng) DL/77FEB113

THE METABOLIC FATE OF PLASMA LIPOPROTEINS IN NORMAL SUBJECTS AND IN PATIENTS WITH INSULIN RESISTANCE AND ENDOGENOUS HYPERTRIGLYCERIDAEMIA. Kissebah AH, Alfarsi S, Adams PW, Wynn V *Diabetologia* 12: 501-9, Oct 76 (Eng) DL/77FEB119

[FASTING VALUES OF CARBOHYDRATE- AND LIPID METABOLISM IN HEALTHY SUBJECTS AND IN PATIENTS WITH DIABETES MELLITUS] Berg G, Matzkies F, Sailer D *Fortschr Med* 94: 1541-3, 7 Oct 76 (Ger) DL/77FEB135

[MUSCULAR WORK IN THE THERAPY OF DIABETES MELLITUS] Berger M *Fortschr Med* 94: 1553-7, 7 Oct 76 (Ger) DL/77FEB136

BISALBUMINEMIA AND DIABETES [LETTER] Vladutiu AO *JAMA* 236: 2393, 22 Nov 76 (Eng) DL/77FEB220

[CLINICAL STUDIES ON INSULIN RESPONSE TO GLUCOSE TOLERANCE TEST IN PATIENTS WITH PULMONARY TUBERCULOSIS (AUTHORS TRANSL.)] Oe N *Kekkaku* 51: 313-28, 15 Aug 76 (Jpn) DL/77FEB222

[CHARACTERISTICS OF THYROTOXICOSIS ASSOCIATED WITH DIABETES MELLITUS] Kuleshov EV *Khirurgiya (Mosk)* 83-7, Sep 76 (Rus) DL/77FEB226

HUMAN C-PEPTIDE. PART II: CLINICAL STUDIES. Beischer W, Heinze E, Keller L, Raptis S, Kerner W, Pfeiffer EF *Klin Wochenschr* 54: 717-25, 1 Aug 76 (Eng) DL/77FEB228

DIABETIC RETINOPATHY AND PROLACTIN [LETTER]. Harter M, Balarac N, Pourcher P, Koslowski JM, Krebs B, Ramaoli A *Lancet* 2: 961-2, 30 Oct 76 (Eng) DL/77FEB248

HYPERGLYCAEMIA AND DIABETES MELLITUS. Jarrett RJ, Keen H *Lancet* 2: 1009-12, 6 Nov 76 (Eng) DL/77FEB250

ALPHA2-MACROGLOBULIN IN DIABETES [LETTER]. McMillan DE *Lancet* 2: 1020-1, 6 Nov 76 (Eng) DL/77FEB251

[DIABETES MELLITUS, HEMOSTATIC FUNCTION, AND DIABETIC ANGIOPATHY] Zoller H, Gutmann W, Fahrner E, Gross W *Med Welt* 27: 1742-3, 10 Sep 76 (Ger) DL/77FEB258

HETEROGENEITY OF PLASMA IMMUNOREACTIVE GLUCAGON. Valverde I, Villanueva ML *Metabolism* 25: 1393-5, Nov 76 (Eng) DL/77FEB281

HETEROGENEITY OF PLASMA GLUCAGON IN MAN. Jaspán JB, Kuku SF, Locker JD, Huen A, Emmanouel DS, Katz AI, Rubenstein AH *Metabolism* 25: 1397-401, Nov 76 (Eng) DL/77FEB282

PLASMA GLUCAGON IN DIABETES RESULTING FROM TOTAL PANCREATCTOMY [PROCEEDINGS]. Bloom SR, Barnes AJ, Bryant MG, Alberti KG *Metabolism* 25: 1481-2, Nov 76 (Eng) DL/77FEB304

IMMUNOREACTIVE GLUCAGON RESPONSES TO ARGININE IN THREE PANCREATCTOMIZED HUMANS. Palmer JP, Werner PL, Benson JW, Ensink JW *Metabolism* 25: 1483-5, Nov 76 (Eng) DL/77FEB305

ELEVATED GUT GLUCAGON-LIKE IMMUNOREACTIVE MATERIAL IN HUMAN AND EXPERIMENTAL DIABETES AND ITS SUPPRESSION BY SOMATOSTATIN. Wider MD, Matsuyama T, Dunbar JC, Foa PP *Metabolism* 25: 1487-9, Nov 76 (Eng) DL/77FEB306

METABOLIC EFFECTS OF LONG-TERM SOMATOSTATIN INFUSION IN MAN. Gerich JE *Metabolism* 25: 1505-7, Nov 76 (Eng) DL/77FEB310

SOMATOSTATIN AND DIABETES: SUPPRESSION OF GLUCOSE ABSORPTION RATHER THAN STIMULATION OF GLUCOSE DISPOSAL. Felig P, Wahren J *Metabolism* 25: 1509-10, Nov 76 (Eng) DL/77FEB311

THE EFFECTS OF GLUCAGON ADMINISTRATION TO NONDIABETICS AND DIABETICS. Unger RH, Aydin I, Nakabayashi H, Srikant CB, Raskin P *Metabolism* 25: 1523-6, Nov 76 (Eng) DL/77FEB315

THE EFFECTS OF ACUTE AND CHRONIC INSULIN ADMINISTRATION ON PLASMA IRG LEVELS IN HUMAN DIABETES. Raskin P, Aydin I, Unger RH *Metabolism* 25: 1531-3, Nov 76 (Eng) DL/77FEB317

ARTERIAL-HEPATIC VEIN GLUCOSE DIFFERENCES IN NORMAL AND DIABETIC MAN AFTER A GLUCOSE INFUSION AT REST AND AFTER EXERCISE. Machlum S, Jervell J, Pruett ED *Scand J Clin Lab Invest* 36: 415-22, Sep 76 (Eng) DL/77FEB391

ON THE MEASUREMENT OF SPONTANEOUS PLATELET AGGREGATION. THE PLATELET AGGREGATION TEST III. METHODS AND FIRST CLINICAL RESULTS. Breddin K, Grun H, Krzywanek HJ, Schremmer WP *Thromb Haemostas* 35: 669-91, 30 Jun 76 (Eng) DL/77FEB412

[BLOOD SUGAR AND BLOOD INSULIN AFTER A RAW OR COOKED MEAL IN CONTROL AND DIABETIC SUBJECTS] Havrankova J, Pesant P, Elie R, Matte R *Union Med Can* 105: 1147-51, Aug 76 (Fre) DL/77FEB421

[CHANGE OF THE CONTENT OF NUCLEIC ACIDS IN THE BLOOD OF PATIENTS WITH DIABETES MELLITUS DEPENDING ON THE SEVERITY OF THE DISEASE] Franchuk MM *Vrach Delo* 76-8, Sep 76 (Rus) DL/77FEB428

[COMPARATIVE QUANTITATIVE RAPID DETERMINATION OF BLOOD SUGAR BY MEANS OF VARIOUS REFLECTOMETER-SYSTEMS] Scherthaner G, Erd W, Sinzinger H, Penner E *Wien Med Wochenschr* 126: 571-4, 1 Oct 76 (Ger) DL/77FEB435

[COMPARATIVE STUDIES ON THE ORAL GLUCOSE TOLERANCE USING 50 AND 100G OF GLUCOSE WITH SPECIAL REFERENCE TO VARIOUS LIPID-METABOLISM PARAMETERS] Meinel H, Wolff E *Z Aerztl Fortbild (Jena)* 70: 943-6, 1 Sep 76 (Ger) DL/77FEB437

1.F.3.4 DIABETES, URINE

[STUDY OF THE FUCOSE-RICH OLIGOSACCHARIDES IN THE URINE OF HEALTHY AND MELTURIC SUBJECTS WITH A, B AND O BLOOD GROUPS] Strecker G, Trentesaux-Chauvet C, Poitau A, Montreuil J *Biochimie* 58: 805-14, 1976 (Fre) DL/77FEB11

DIABETIC KETOALKALOSIS [LETTER]. Shirley R, Martin JV *Br Med J* 2: 943, 16 Oct 76 (Eng) DL/77FEB28

[COMPARISON OF VARIOUS SEMI-QUANTITATIVE TESTS FOR DETERMINATION OF URINARY GLUCOSE IN DIABETICS (AUTHORS TRANSL.)] Dorchy H, Loeb H

1.F DIABETES

Diabete Metab 1: 87-9, Jun 75 (Fre) DL/77FEB96

RENAL WASTAGE OF INSULIN IN CHILDREN WITH DIABETES MELLITUS. Malone JJ, Root AW *Diabetes* 25: 989-93, Oct 76 (Eng) DL/77FEB109

THE EXCRETION OF INSULIN IN URINE. El-Allawy RM, Sonne O, Gliemann J, Orskov H, Johansen K *Diabetologia* 12: 523-6, Oct 76 (Eng) DL/77FEB122

[POSSIBLE SOURCES OF ERROR IN FALSE EXAMINATION RESULTS DURING THE USE OF BIOPHAN-G-TEST-STRIPS] Heller H, Endres A *Z Aerztl Fortbild (Jena)* 70: 946-9, 1 Sep 76 (Ger) DL/77FEB438

1.F.4 DIABETES, PHYSIOPATHOLOGY

GASTRIC EMPTYING OF SOLID MEALS IN DIABETICS. Scarpello JH, Barber DC, Hague RV, Cullen DR, Sladen GE *Br Med J* 2: 671-3, 18 Sep 76 (Eng) DL/77FEB22

TREATMENT OF DIABETES MELLITUS. Colwell JA *Compr Ther* 2: 16-21, Nov 76 (Eng) DL/77FEB48

DIABETES MELLITUS AND LEFT VENTRICULAR FUNCTION. Ahmed SS, Regan TJ *Compr Ther* 2: 51-7, Nov 76 (Eng) DL/77FEB53

THE EVOLVING PICTURE OF DIABETES. Eilenberg M *Compr Ther* 2: 9-15, Nov 76 (Eng) DL/77FEB55

PLASMA RENIN ACTIVITY AND HYPERTENSION IN DIABETES MELLITUS. Christlieb AR, Kaldany A, Delia JA *Diabetes* 25: 969-74, Oct 76 (Eng) DL/77FEB105

RENAL WASTAGE OF INSULIN IN CHILDREN WITH DIABETES MELLITUS. Malone JJ, Root AW *Diabetes* 25: 989-93, Oct 76 (Eng) DL/77FEB109

QUANTITATIVE EVALUATION OF SOMATOTROPIC CELLS (SC) IN THE ADENOHYPOPHYSIS OF NORMAL AND DIABETIC MALE CHINESE HAMSTERS. Dexler P, Rossi GL *Diabetologia* 12: 489-93, Oct 76 (Eng) DL/77FEB117

EXOCRINE PANCREATIC FUNCTION IN JUVENILE-ONSET DIABETES MELLITUS. Frier BM, Saunders JH, Wormsley KG, Bouchier IA *Gut* 17: 685-91, Sep 76 (Eng) DL/77FEB133

[MUSCULAR WORK IN THE THERAPY OF DIABETES MELLITUS] Berger M *Fortschr Med* 94: 1553-7, 7 Oct 76 (Ger) DL/77FEB136

ADRENAL AND LIVER PARTICIPATION IN THE RATS POST-STRESS DIABETIC RESPONSE. Vargas I, Kawada ME *Horm Metab Res* 8: 383-8, Sep 76 (Eng) DL/77FEB144

THE INFLUENCE OF STREPTOZOTOCIN DIABETES ON ADRENAL FUNCTION IN MALE RATS. De Nicola AF, Fridman O, Del Castillo EJ, Foglia VG *Horm Metab Res* 8: 388-92, Sep 76 (Eng) DL/77FEB145

[ROLE OF THE THROMBOCYTES IN CHANGES IN THE HOMEOSTATIC SYSTEM IN DIABETES MELLITUS] Petrov MN, Gavrisheva NA, Filatova AM, Tsikarishvili NV, Vashkinel VK *Klin Med (Mosk)* 54: 119-22, Jul 76 (Rus) DL/77FEB229

IS DIABETES A MODEL FOR AGING? Shagan BP *Med Clin North Am* 60: 1209-11, 1976 (Eng) DL/77FEB241

INTRAISLET NEGATIVE INSULIN-GLUCAGON FEEDBACK. Samols E, Harrison J *Metabolism* 25: 1443-7, Nov 76 (Eng) DL/77FEB293

ALPHA CELL FUNCTION IN DIABETES MELLITUS. Gerich JE *Metabolism* 25: 1513-6, Nov 76 (Eng) DL/77FEB312

REGULATION OF GLUCAGON SECRETION OF THE DIABETIC PANCREAS IN VITRO [PROCEEDINGS]. Matschinsky FM, Pagliara AS *Metabolism* 25: 1517, Nov 76 (Eng) DL/77FEB313

EVIDENCE FOR AN INSULIN-INDEPENDENT ALPHA-CELL ABNORMALITY IN HUMAN DIABETES. Bennett PH, Aronoff SL, Unger RH *Metabolism* 25: 1527-9, Nov 76 (Eng) DL/77FEB316

CARBOHYDRATE TOLERANCE AND OBESITY. Bredahi HD *Med J Aust* 1: 9-10, 19 Jun 76 (Eng) DL/77FEB319

[LOW THYROTROPE HORMONE: A NEW ENTITY] Berthezene F, Paffoy JC, Escallier A, Bizollon C, Mormex R *Nouv Presse Med* 5: 2138-40, 9 Oct 76 (Fre) DL/77FEB343

[SELECTED PHYSIOPATHOLOGICAL AND CLINICAL ASPECTS OF PURINE METABOLISM] Chodorowski Z *Pol Tyg Lek* 31: 1733-5, 4 Oct 76 (Pol) DL/77FEB349

ARTERIAL-HEPATIC VEIN GLUCOSE DIFFERENCES IN NORMAL AND DIABETIC MAN AFTER A GLUCOSE INFUSION AT REST AND AFTER EXERCISE. Machlum S, Jervell J, Pruett ED *Scand J Clin Lab Invest* 36: 415-22, Sep 76 (Eng) DL/77FEB391

1.F.5 DIABETES, IMMUNOLOGY

INSULIN RESISTANT DIABETES MELLITUS WITHOUT THE PRESENCE OF INSULIN ANTIBODIES. A CASE REPORT. Pav J, Sramkova J, Matys Z *Endokrinologie* 67: 373-6, 1976 (Eng) DL/77FEB71

SEPARATE AUTOANTIBODIES TO HUMAN PANCREATIC GLUCAGON AND SOMATOSTATIN CELLS. Bottazzo GF, Lendrum R *Lancet* 2: 873-6, 23 Oct 76 (Eng) DL/77FEB244

HLA AND JUVENILE DIABETES MELLITUS IN THE JAPANESE [LETTER]. Wakisaka A, Aizawa M, Matsuura N, Nakagawa S, Nakayama E *Lancet* 2: 970, 30 Oct 76 (Eng) DL/77FEB249

HETEROGENEITY OF PLASMA GLUCAGON IN MAN. Jaspán JB, Kuku SF, Locker JD, Huen A, Emmanouel DS, Katz AI, Rubenstein AH *Metabolism* 25: 1397-401, Nov 76 (Eng) DL/77FEB282

[HL-A SYSTEM AND DIABETES MELLITUS] Scherthaner G, Ludwig H, Eibl M, Erd W, Pacher M, Mayr WR *Schweiz Med Wochenschr* 106: 514-7, 10 Apr 76 (Ger) DL/77FEB394

1.F.6 DIABETES COMPLICATIONS AND PATHOLOGY

1.F.6.1 DIABETIC KETOACIDOSIS

1.F.6.1.1 ACIDOSIS, DIABETIC

DIABETIC KETOALKALOSIS [LETTER]. Melrose E, Morgan A, Harrower AD, Smith AW *Br Med J* 2: 237, 24 Jul 76 (Eng) DL/77FEB21

CAN PHENFORMIN-INDUCED LACTIC ACIDOSIS BE PREVENTED? Gale EA, Tattersall RB *Br Med J* 2: 972-5, 23 Oct 76 (Eng) DL/77FEB32

TREATMENT OF DIABETES MELLITUS. Colwell JA *Compr Ther* 2: 16-21, Nov 76 (Eng) DL/77FEB48

NEW INSULIN REGIMENS FOR SEVERE DIABETIC KETOSIS. Anonymous *Drug Ther Bull* 14: 77-9, 24 Sep 76 (Eng) DL/77FEB63

INFLUENCE OF POLARIZING INFUSIONS ON ANTIARRHYTHMIC EFFECTS OF BETA-BLOCKERS. Rossi P, Araldi D, Cernigliaro C, D'Auliero M, Carcano G *Ital Cardiol* 6: 620-7, 1976 (Eng) DL/77FEB126

RECURRENT DIABETIC KETOACIDOSIS: COMPARISON OF THERAPY WITH LOW DOSE AND HIGH DOSE INSULIN. Guerra SM *J Tenn Med Assoc* 69: 781-4, Nov 76 (Eng) DL/77FEB233

GLUCAGON AND KETOGENESIS. McGarry JD, Robles-Valdes C, Foster DW *Metabolism* 25: 1387-9, Nov 76 (Eng) DL/77FEB280

HETEROGENEITY OF PLASMA GLUCAGON IN MAN. Jaspán JB, Kuku SF, Locker JD, Huen A, Emmanouel DS, Katz AI, Rubenstein AH *Metabolism* 25: 1397-401, Nov 76 (Eng) DL/77FEB282

[PARODONTOPATHY REVEALING INSULIN-DEPENDANT DIABETES (LETTER)] Pinget M, Dorner M, Brocard JM, Comte F, Farge R, Roth JJ *Nouv Presse Med* 5: 1995, 25 Sep 76 (Fre) DL/77FEB340

[TREATMENT OF DIABETIC KETO-ACIDOSIS THROUGH CONTINUOUS INSULIN INFUSION] Mirouze J, Mion C, Monnier L, Beraud JJ, Selam JL *Nouv Presse Med* 5: 2444-6, 6 Nov 76 (Fre) DL/77FEB342

[LACTIC ACIDOSIS IN DIABETES MELLITUS (AUTHORS TRANSL)] Buess HJ, Mihatsch MJ, Wunderlich P, Berger W *Praxis* 65: 406-13, 6 Apr 76 (Ger) DL/77FEB353

[USE OF TRASYLOL IN DIABETIC KETOACIDOSIS] Zelinskii BA, Kogut ES *Vrach Delo* 78-80, Sep 76 (Rus) DL/77FEB429

[BEHAVIOUR OF SERUM CONCENTRATIONS OF GLUCOSE, IMMUNOREACTIVE INSULIN AND POTASSIUM IONS IN NEWBORNS AFTER LONG TERM OR CRASH TREATMENTS WITH PARTUSISTEN OR PARTUSISTEN IN COMBINATION WITH ISOPTIN (AUTHORS TRANSL)] Weidinger H, Mohr D, Haller K, Hiltmann WD, Vogel M *Z Geburtshilfe Perinatol* 180: 258-65, Aug 76 (Ger) DL/77FEB439

1.F.6.1.2 DIABETIC COMA

[DIABETIC COMA] Miranda Caballero R *Bol Med Hosp Infant Mex* 33: 1203-8, Sep-Oct 76 (Spa) DL/77FEB2

[INSULIN-DEPENDENT DIABETES DURING THE THIRD LIFE-PERIOD] Hoet JJ *Probl Actuels Endocrinol Nutr serie* 17: 185-91, 1973 (Fre) DL/77FEB356

[COMA CAUSED BY HYPEROSMOLARITY] Morin C, Bernier J *Union Med Can* 105: 1174-80, Aug 76 (Fre) DL/77FEB422

1.F.6.2 DIABETIC ANGIOPATHIES

FRAGMENTATION HAEMOLYSIS IN PATIENTS WITH SEVERE DIABETIC ANGIOPATHY. Brunning RD, Jacob HS, Brenckman WD, Jimenez-Pasquau F, Goetz FC *Br J Haematol* 34: 283-9, Oct 76 (Eng) DL/77FEB7

CANCER MORTALITY AND SACCHARIN CONSUMPTION IN DIABETICS. Armstrong B, Lea AJ, Adelstein AM, Donovan JW, White GC,

1.F DIABETES

Ruttle S *Br J Prev Soc Med* 30: 151-7, Sep 76 (Eng) DL/77FEB19

[DIABETES MELLITUS AS RISK FACTOR OF ISCHEMIC HEART DISEASE AND REFLECTED IN SERUM LIPID LEVELS.] Kusa O *Bratisl Lek Listy* 66: 28-37, 1 Jul 76 (Slo) DL/77FEB35

LACK OF A SIGNIFICANT PROTECTIVE EFFECT OF AUGMENTED CIRCULATING GLUCOSE ON THE ISCHEMIC MYOCARDIUM. BJ Spath JA, Ogletree ML, Lefer AM *Can J Physiol Pharmacol* 54: 423-9, Aug 76 (Eng) DL/77FEB36

THE MANAGEMENT OF DIABETES IN THE ELDERLY. Walsh CH *Compr Ther* 2: 38-46, Nov 76 (Eng) DL/77FEB51

WATER FILTRATION OF THE FOREARM IN SHORT- AND LONG-TERM DIABETES MELLITUS. Poulsen HL, Nielsen SL *Diabetologia* 12: 437-40, Oct 76 (Eng) DL/77FEB11

MONCKEBERGS ARTERIOSCLEROSIS REVISITED: OR SILVER VESSELS AMONG THE OLD. Moskowitz M, Verani M *J Can Assoc Radiol* 27: 200-2, Sep 76 (Eng) DL/77FEB162

THE DIABETIC FOOT. Levin ME *J Am Podiatry Assoc* 66: 825-39, Nov 76 (Eng) DL/77FEB174

VASCULITIS IN MATURITY-ONSET DIABETES MELLITUS [LETTER]. White DW *JAMA* 236: 2171, 8 Nov 76 (Eng) DL/77FEB217

[SURGICAL DISEASES ACCOMPANYING DIABETES MELLITUS] Kashkin KA *Khirurgia (Mosk)* 105-11, Mar 76 (Rus) DL/77FEB224

[THE CENTRAL VITREO-RETINAL FIBROPLASTIC (EDEMATOUS-FIBROPLASTIC) SYNDROME (AUTHORS TRANSL.)] Vodovozov AM *Klin Monatsbl Augenheilkd* 169: 212-25, Aug 76 (Ger) DL/77FEB227

PREOPERATIVE RISK FACTORS AND AORTA-CORONARY BYPASS GRAFT PATENCY. Blumlein SL, Anderson AJ, Barboriak JJ, Rimm AA, Walker J, Flemma R *J Thorac Cardiovasc Surg* 72: 778-83, Nov 76 (Eng) DL/77FEB234

NATURAL HISTORY OF CORONARY HEART DISEASE. Gorlin R *Major Probl Intern Med* 11: 195-215, 1976 (Eng) DL/77FEB236

THERAPY TO CONTROL CORONARY ATHEROSCLEROSIS AND ITS COMPLICATIONS. Gorlin R *Major Probl Intern Med* 11: 281-92, 1976 (Eng) DL/77FEB237

IS DIABETES A MODEL FOR AGING Shagan BP *Med Clin North Am* 60: 1209-11, 1976 (Eng) DL/77FEB241

HYPERGLYCAEMIA AND DIABETES MELLITUS. Jarrett RJ, Keen H *Lancet* 2: 1009-12, 6 Nov 76 (Eng) DL/77FEB250

ALPHA2-MACROGLOBULIN IN DIABETES [LETTER]. McMillan DE *Lancet* 2: 1020-1, 6 Nov 76 (Eng) DL/77FEB251

SMOKING AND OTHER RISK FACTORS FOR CORONARY HEART-DISEASE IN BRITISH CIVIL SERVANTS. Reid DD, Hamilton PJ, McCartney P, Rose G, Jarrett RJ, Keen H *Lancet* 2: 979-84, 6 Nov 76 (Eng) DL/77FEB253

[DIABETES MELLITUS, HEMOSTATIC FUNCTION, AND DIABETIC ANGIOPATHY] Zoller H, Gutmann W, Fahrner E, Gross W *Med Welt* 27: 1742-3, 10 Sep 76 (Ger) DL/77FEB258

[BLOOD CLOTTING AND FIBRINOLYTIC ACTIVITY AND PLATELET CHANGES IN CHRONIC PERIPHERAL ARTERIAL INSUFFICIENCY] Kaniak J, Kotschy M, Kurzawska M, Włodarczyk J, Prastowski W *Pol Tyg Lek* 31: 1757-60, 11 Oct 76 (Pol) DL/77FEB350

[MACRO AND MICRO DIABETIC ANGIOPATHIES. ANATOMO-PATHOLOGIC ASPECTS] Diebold J, Camilleri JP *Rev Prat* 26: 3075-82, 11 Oct 76 (Fre) DL/77FEB380

[PATHOGENESIS, PHYSIOPATHOLOGY, AND EPIDEMIOLOGY OF DIABETIC MICROANGIOPATHY] Hauteceuvre M, Basdevant A, Slama G, Tchobroutsky G *Rev Prat* 26: 3085-93, 11 Oct 76 (Fre) DL/77FEB381

[BLOOD LIPIDS, DIABETES AND ARTERIOSCLEROSIS] Guy-Grand B, Bigorie B, Bour H *Rev Prat* 26: 3097-107, 11 Oct 76 (Fre) DL/77FEB382

[PLACE AND RESPONSIBILITY OF VASCULAR LESIONS IN DIABETIC NEUROPATHIES] Pirart J *Rev Prat* 26: 3149-56, 11 Oct 76 (Fre) [61] DL/77FEB386

[SIGNIFICANCE OF BLOOD SUGAR NORMALIZATION IN THE PREVENTION OF VASCULAR COMPLICATIONS IN DIABETES MELLITUS] Tchobroutsky G, Slama G *Rev Prat* 26: 3159-71, 11 Oct 76 (Fre) [17] DL/77FEB387

[HYPOGLYCEMIC MEDICATIONS AND VASCULAR COMPLICATIONS OF DIABETES MELLITUS. CURRENT CONTROVERSY] Lubetzki J *Rev Prat* 26: 3173-83, 11 Oct 76 (Fre) DL/77FEB388

[AMOUNT OF ACETONE AND ETHYL ALCOHOL IN THE BLOOD AND URINE OF PATIENTS WITH DIABETES MELLITUS AND ISCHEMIC HEART DISEASE] Kamyshova EP, Sorochkina RM, Kapatsinskaya LK, Romanova LN, Danilova MI *Sov Med* 147-8, Apr 76 (Rus) DL/77FEB403

[RELATIONSHIP BETWEEN HORMONE CONCENTRATION IN PERIPHERAL BLOOD IN HYPERTENSION, ARTERIOSCLEROSIS AND OBESITY] Kokina LP, Lyskova MN, Tkacheva GA, Gabunia RI, Syzgantseva LM *Ter Arkh* 48: 81-4, 1976 (Rus) DL/77FEB410

NUTRITIONAL HEALTH IN A CHANGING SOCIETY - STUDIES FROM ISRAEL. Guggenheim K, Kaufmann NA *World Rev Nutr Diet* 24: 217-40, 1976 (Eng) [67] DL/77FEB436

[ABNORMALITIES IN PRIMARY HEMOSTASIS DURING DIABETIC MICROANGIOPATHY] Bensoussan D, Levy-Toledano S, Passa P *Acad Rev* 5: 2383-6, 30 Oct 76 (Fre) DL/77FEB457

REGIONAL ISCHEMIC INFARCTS OF THE RETINA. Foos RY *Albrecht von Graefes Arch Klin Ophthalmol* 200: 183-94, 1976 (Eng) DL/77FEB481

CHEMICAL LUMBAR SYMPLECTOMY. Hughes-Davies DI, Redman LR *Anaesthesia* 31: 1068-75, Oct 76 (Eng) DL/77FEB483

EFFECTS OF HYPOPHYSECTOMY ON ALLOXAN-DIABETIC, ARTERIOSCLEROTIC, BREEDER VS. NON-ARTERIOSCLEROTIC, VIRGIN RATS. Wexler BC *Atherosclerosis* 25: 13-30, Oct 76 (Eng) DL/77FEB515

THE ULTRASTRUCTURE OF THE REACTION OF ARTERIAL WALLS TO CHOLESTEROL CRYSTALS IN ATHEROEMBOLISM. Warren BA, Vales O *Br J Exp Pathol* 57: 67-77, Feb 76 (Eng) *DL/77FEB518

EFFECTS OF ANOXIA AND ISCHEMIA ON PROTEIN SYNTHESIS IN PERFUSED RAT HEARTS. Kao R, Rannels DE, Morgan HE *Circ Res* 38: 1124-30, May 76 (Eng) *DL/77FEB536

CONTROL OF ENERGY PRODUCTION IN MYOCARDIAL ISCHEMIA. Shrago E, Shug AL, Sul H, Bittar N, Folts JD *Circ Res* 38: 175-9, May 76 (Eng) *DL/77FEB540

CHARACTERIZATION OF LIPIDS ASSOCIATED WITH MACROMOLECULES OF THE INTERCELLULAR MATRIX OF HUMAN AORTA. Claire M, Jacotot B, Robert L *Connect Tissue Res* 4: 61-71, 1976 (Eng) *DL/77FEB544

A MECHANISM BY WHICH HIGH-DENSITY LIPOPROTEINS MAY SLOW THE ATHEROGENIC PROCESS. Carew TE, Koschinsky T, Hayes SB, Steinberg D *Lancet* 1: 1315-7, 19 Jun 76 (Eng) *DL/77FEB607

[PREVENTION OF ARTERIOSCLEROSIS DURING CHILDHOOD: PRELIMINARY RESEARCH] Nigro N, Benso L, Martini A, Baitieri M, Brunet MR, Iudicello P *Minerva Pediatr* 27: 288-312, 18 Feb 75 (Ita) *DL/77FEB611

ABNORMALITIES OF THE ARTERIAL WALL AND ITS METABOLISM IN ATHEROGENESIS. Wissler RW, Vesselinovitch D, Getz GS *Prog Cardiovasc Dis* 18: 341-69, Mar-Apr 76 (Eng) *DL/77FEB631

CATECHOLAMINES AND MYOCARDIAL INFARCTION. Young RC, Thomas M, Evans ME, Opie LH *Recent Adv Stud Cardiac Struct Metab* 1: 163-8, 1972 (Eng) *DL/77FEB637

CYCLIC AMP LEVELS IN THE ACUTELY ISCHEMIC MYOCARDIUM OF THE DOG AND GUINEA PIG. Wollenberger A, Krause G, Heier G *Recent Adv Stud Cardiac Struct Metab* 1: 27-9, 1972 (Eng) *DL/77FEB642

MYOCARDIAL ION AND LIPID CHANGES DURING ISCHEMIA AND CATECHOLAMINE INDUCED NECROSIS: RELATION TO REGIONAL BLOOD FLOW. Regan TJ, Markov A, Khan MI, Jesrani MU, Oldewurtel HA, Ettinger PO *Recent Adv Stud Cardiac Struct Metab* 1: 656-64, 1972 (Eng) *DL/77FEB649

MYOCARDIAL POTASSIUM LOSS DURING ISCHEMIA. Case RB *Recent Adv Stud Cardiac Struct Metab* 1: 665-72, 1972 (Eng) *DL/77FEB650

THE HORMONAL RESTORATION OF THE INTRINSIC CONTRACTILE FUNCTION OF THE ATROPHIC HEARTS OF HYPOPHYSECTOMIZED RATS. Korecky B, Taichman GC, Minelli R, Beznak M *Recent Adv Stud Cardiac Struct Metab* 1: 71-80, 1972 (Eng) *DL/77FEB651

INHIBITED ADENINE NUCLEOTIDE TRANSLOCATION IN MITOCHONDRIA ISOLATED FROM ISCHEMIC MYOCARDIUM. Bittar N, Shug AL, Koke JR, Folts JD, Shrago ES *Recent Adv Stud Cardiac Struct Metab* 7: 137-43, 1975 (Eng) *DL/77FEB658

TRANSMURAL GRADIENTS IN THE ISCHEMIC DOG LEFT VENTRICLE: METABOLISM OF ENDOGENOUS TRIGLYCERIDES AND GLYCOGEN. Crass MF 3d, Holsinger JW Jr, Shipp JC, Eliot RS, Pieper GM *Recent Adv Stud Cardiac Struct Metab* 7: 225-30, 1975 (Eng) *DL/77FEB662

EFFECT ON MYOCARDIAL METABOLIC PATTERN OF LOCAL COMPLETE AND INCOMPLETE ISCHEMIA. Isselhard W, Geppert E, Menge M, Lauterjung KL, Vogel W, Witte J, Heugel E *Recent Adv Stud Cardiac Struct Metab* 7: 231-6, 1975 (Eng) *DL/77FEB664

INHIBITION OF GLYCOLYSIS IN HEARTS DURING ISCHEMIC PERFUSION. Neely JR, Whitmer JT, Rovetto MJ *Recent Adv Stud Cardiac Struct Metab* 7: 243-8, 1975 (Eng) *DL/77FEB665

ESTIMATED GLYCOLYTIC FLUX IN INFARCTING HEART. Opie LH, Owen P, Lubbe W *Recent Adv Stud Cardiac Struct Metab* 7: 249-55, 1975 (Eng) *DL/77FEB666

1.F DIABETES

CARNITINE PALMITYLTRANSFERASE ACTIVITY DURING MYOCARDIAL ISCHEMIA AND AT LOW IONIC STRENGTHS. McMillin Wood J *Recent Adv Stud Cardiac Struct Metab* 7: 335-9, 1976 (Eng) *DL/77FEB673

RABBITS AS A MODEL FOR THE STUDY OF HYPERLIPIDOPROTEINEMIA AND ATHEROSCLEROSIS. Shore B, Shore V *Adv Exp Med Biol* 67: 123-41, 1976 (Eng) *DL/77FEB693

A MODEL FOR THERAPEUTIC INTERVENTIONS ON ESTABLISHED CORONARY ATHEROSCLEROSIS IN A NONHUMAN PRIMATE. Malinow MR, McLaughlin O, Papworth L, Naito HK, Lewis L, McNulty WP *Adv Exp Med Biol* 67: 3-31, 1976 (Eng) *DL/77FEB694

INBRED MICE AND THEIR HYBRIDS AS AN ANIMAL MODEL FOR ATHEROSCLEROSIS RESEARCH. Roberts A, Thompson JS *Adv Exp Med Biol* 67: 313-327, 1976 (Eng) *DL/77FEB695

THE NONHUMAN PRIMATES AS MODELS FOR STUDYING HUMAN ATHEROSCLEROSIS: STUDIES ON THE CHIMPANZEE, THE BABOON AND THE RHESUS MACACUS. Blaton V, Peeters H *Adv Exp Med Biol* 67: 33-64, 1976 (Eng) *DL/77FEB696

THE BABOON IN ATHEROSCLEROSIS RESEARCH: COMPARISON WITH OTHER SPECIES AND USE IN TESTING DRUGS AFFECTING LIPID METABOLISM. Howard AN *Adv Exp Med Biol* 67: 77-87, 1976 (Eng) *DL/77FEB698

LIPID METABOLISM AND ISCHAEMIC HEART DISEASE IN THE ELDERLY. Horsey J, Livesley B *Age Ageing* 5: 75-83, May 76 (Eng) *DL/77FEB699

1.F.6.3 DIABETIC NEPHROPATHIES

THE MANAGEMENT OF DIABETES IN THE ELDERLY. Walsh CH *Compr Ther* 2: 38-46, Nov 76 (Eng) DL/77FEB51

PLASMA RENIN ACTIVITY IN DIABETIC AUTONOMIC NEUROPATHY. Campbell IW, Ewing DJ, Anderson JL, Thompson JH, Horn DB, Clarke BF *Eur J Clin Invest* 6: 381-5, 10 Sep 76 (Eng) DL/77FEB73

PLASMA RENIN ACTIVITY AND HYPERTENSION IN DIABETES MELLITUS. Christlieb AR, Kaldany A, Deia JA *Diabetes* 25: 969-74, Oct 76 (Eng) DL/77FEB105

ACUTE PYELONEPHRITIS SIMULATING POORLY VASCULARIZED RENAL NEOPLASM. NON-SPECIFICITY OF ANGIOGRAPHIC CRITERIA. Barth KH, Lightman NI, Ridolfi RL, Catalona WJ *J Urol* 116: 650-2, Nov 76 (Eng) DL/77FEB216

[INTERCAPILLARY GLOMERULOSCLEROSIS] Jacobs C, Legrain M *Rev Prat* 26: 3133-44, 11 Oct 76 (Fre) DL/77FEB385

[PLACE AND RESPONSIBILITY OF VASCULAR LESIONS IN DIABETIC NEUROPATHIES] Pirart J *Rev Prat* 26: 3149-56, 11 Oct 76 (Fre) [61] DL/77FEB386

FOREWORD: PROLONGING LIFE IN PATIENTS WITH TERMINAL RENAL FAILURE. Straffon RA *Urol Clin North Am* 3: 453-6, Oct 76 (Eng) DL/77FEB423

SPECIAL PROBLEMS IN DIABETIC RENAL TRANSPLANTATION. Simmons RL, Payne WD, Sutherland DE, Howard RJ, Goetz FC, Barbosa J, Kjellstrand CM, Najarian JS *Urol Clin North Am* 3: 691-9, Oct 76 (Eng) DL/77FEB424

1.F.6.4 DIABETIC NEUROPATHIES

GASTRIC EMPTYING OF SOLID MEALS IN DIABETICS. Scarpello JH, Barber DC, Hague RV, Cullen DR, Sladen GE *Br Med J* 2: 671-3, 18 Sep 76 (Eng) DL/77FEB22

THE 14C-GLYCOCHOLATE TEST IN DIABETIC DIARRHOEA. Scarpello JH, Hague RV, Cullen DR, Sladen GE *Br Med J* 2: 673-5, 18 Sep 76 (Eng) DL/77FEB23

THE MANAGEMENT OF DIABETES IN THE ELDERLY. Walsh CH *Compr Ther* 2: 38-46, Nov 76 (Eng) DL/77FEB51

PLASMA RENIN ACTIVITY IN DIABETIC AUTONOMIC NEUROPATHY. Campbell IW, Ewing DJ, Anderson JL, Thompson JH, Horn DB, Clarke BF *Eur J Clin Invest* 6: 381-5, 10 Sep 76 (Eng) DL/77FEB73

THE DIABETIC FOOT. Levin ME *J Am Podiatry Assoc* 66: 825-39, Nov 76 (Eng) DL/77FEB174

DIABETIC POLYNEUROPATHY: THE IMPORTANCE OF INSULIN DEFICIENCY, HYPERGLYCEMIA AND ALTERATIONS IN MYOINOSITOL METABOLISM IN ITS PATHOGENESIS. Winegrad AI, Greene DA *N Engl J Med* 295: 1416-21, 16 Dec 76 (Eng) DL/77FEB326

[GALL-BLADDER CHANGES IN DIABETICS (AUTHORS TRANSL.)] Forgacs S *Radiol Diagn (Berl)* 17: 51-5, 1976 (Ger) DL/77FEB368

[PLACE AND RESPONSIBILITY OF VASCULAR LESIONS IN DIABETIC NEUROPATHIES] Pirart J *Rev Prat* 26: 3149-56, 11 Oct 76 (Fre) [61] DL/77FEB386

SPECIAL PROBLEMS IN DIABETIC RENAL TRANSPLANTATION. Simmons RL, Payne WD, Sutherland DE, Howard RJ, Goetz FC, Barbosa J, Kjellstrand CM, Najarian JS *Urol Clin North Am* 3: 691-9, Oct 76 (Eng) DL/77FEB424

DIABETIC PERIPHERAL NEUROPATHY. Petrlik JC *Am J Nurs* 76: 1794-7, Nov 76 (Eng) DL/77FEB468

THE ROLE OF ABNORMALITIES IN NERVE METABOLISM IN THE PATHOGENESIS OF DIABETIC PERIPHERAL NEUROPATHY. Clements RS *Ala J Med Sci* 13: 399-404, Oct 76 (Eng) DL/77FEB478

1.F.6.5 DIABETIC RETINOPATHY

DIABETIC RETINOPATHY: PATHOGENESIS AND PREVENTION. Kornzweig AL *Compr Ther* 2: 58-63, Nov 76 (Eng) DL/77FEB54

[THE CENTRAL VITREO-RETINAL FIBROPLASTIC (EDEMATOUS-FIBROPLASTIC) SYNDROME (AUTHORS TRANSL.)] Vodovozov AM *Klin Monatsbl Augenheilkd* 169: 212-25, Aug 76 (Ger) DL/77FEB227

DIABETIC RETINOPATHY AND PROLACTIN [LETTER]. Harter M, Balarac N, Pourcher P, Koslowski JM, Krebs B, Ramaioli A *Lancet* 2: 961-2, 30 Oct 76 (Eng) DL/77FEB248

HYPERGLYCAEMIA AND DIABETES MELLITUS. Jarrett RJ, Keen H *Lancet* 2: 1009-12, 6 Nov 76 (Eng) DL/77FEB250

[PREVENTION OF BLINDNESS] Litricin O *Nar Zdrav* 31: 189-91, Jul-Aug 75 (Scr) DL/77FEB327

[DIABETIC RETINOPATHY] Haut J, Rousselie F *Rev Prat* 26: 3121-5, 11 Oct 76 (Fre) DL/77FEB384

[PLACE AND RESPONSIBILITY OF VASCULAR LESIONS IN DIABETIC NEUROPATHIES] Pirart J *Rev Prat* 26: 3149-56, 11 Oct 76 (Fre) [61] DL/77FEB386

[SIGNIFICANCE OF BLOOD SUGAR NORMALIZATION IN THE PREVENTION OF VASCULAR COMPLICATIONS IN DIABETES MELLITUS] Tchobrousky G, Slama G *Rev Prat* 26: 3159-71, 11 Oct 76 (Fre) [17] DL/77FEB387

ANNUAL REVIEW OF RETINAL RESEARCH. Cohen J *Am J Optom Physiol Opt* 53: 483-9, Sep 76 (Eng) [29] DL/77FEB471

ELEVATION OF INTRAOCULAR PRESSURE AFTER PARS PLANA VITRECTOMY. Weinberg RS, Peyman GA, Huamonte FU *Albrecht von Graefes Arch Klin Ophthalmol* 200: 157-61, 30 Aug 76 (Eng) DL/77FEB479

DIABETIC RETINOPATHY STUDY. PRELIMINARY RESULTS FROM 215 PATIENTS TREATED UNIOCULARLY WITH PHOTOCOAGULATION. Koerner F, Schlegel D, Koerner U *Albrecht von Graefes Arch Klin Ophthalmol* 200: 99-111, 30 Aug 76 (Eng) DL/77FEB480

REGIONAL ISCHEMIC INFARCTS OF THE RETINA. Foos RY *Albrecht von Graefes Arch Klin Ophthalmol* 200: 183-94, 1976 (Eng) DL/77FEB481

INHIBITION OF LENS ALDOSE REDUCTASE BY FLAVONOIDS—THEIR POSSIBLE ROLE IN THE PREVENTION OF DIABETIC CATARACTS. Varma SD, Kinoshita JH *Biochem Pharmacol* 25: 2505-13, 15 NOV 76 (Eng) DL/77FEB514

1.F.6.6 OTHER COMPLICATIONS OF DIABETES

PREMATURE ERUPTION AND MACRODONIA ASSOCIATED WITH INSULIN RESISTANT DIABETES AND PINEAL HYPERPLASIA. REPORT OF TWO CASES. Holmes J, Tanner MS *Br Dent J* 141: 280-4, 2 Nov 76 (Eng) DL/77FEB4

CANCER MORTALITY AND SACCHARIN CONSUMPTION IN DIABETICS. Armstrong B, Lea AJ, Adelstein AM, Donovan JW, White GC, Ruttle S *Br J Prev Soc Med* 30: 151-7, Sep 76 (Eng) DL/77FEB19

THE 14C-GLYCOCHOLATE TEST IN DIABETIC DIARRHOEA. Scarpello JH, Hague RV, Cullen DR, Sladen GE *Br Med J* 2: 673-5, 18 Sep 76 (Eng) DL/77FEB23

MECONIUM ILEUS EQUIVALENT IN ADULTS WITH CYSTIC FIBROSIS OF PANCREAS: A REPORT OF SIX CASES. Hodson ME, Mearns MB, Batten JC *Br Med J* 2: 790-1, 2 Oct 76 (Eng) DL/77FEB27

DIABETIC KETOALKALOSIS [LETTER]. Shirley R, Martin JV *Br Med J* 2: 943, 16 Oct 76 (Eng) DL/77FEB28

VOVULUS OF THE SMALL BOWEL IN A DIABETIC PATIENT [LETTER]. Fitzgerald GA, Colgan B, Drury MI, O'Connell FX *Br Med J* 2: 945, 16 Oct 76 (Eng) DL/77FEB29

CAN PHENFORMIN-INDUCED LACTIC ACIDOSIS BE PREVENTED? Gale EA, Tattersall RB *Br Med J* 2: 972-5, 23 Oct 76 (Eng) DL/77FEB32

[DIABETES MELLITUS AS RISK FACTOR OF ISCHEMIC HEART DISEASE AND REFLECTED IN SERUM LIPID LEVELS.] Kusa O *Bratisl Lek Listy* 66: 28-37, 1 Jul 76 (Slo) DL/77FEB35

COMPLICATIONS OF CEREBRAL REVASCLARIZATION. Reichman OH *Clin Neurosurg* 23: 318-35, 1976 (Eng) DL/77FEB47

TREATMENT OF DIABETES MELLITUS. Colwell JA *Compr Ther* 2: 16-21, Nov 76 (Eng) DL/77FEB48

1.F DIABETES

PANCREATIC ISLET CELL TRANSPLANTATION AND DIABETES THERAPY. Monaco AP, Codish SD *Comp Ther* 2: 29-37, Nov 76 (Eng) DL/77FEB50

THE MANAGEMENT OF DIABETES IN THE ELDERLY. Walsh CH *Comp Ther* 2: 38-46, Nov 76 (Eng) DL/77FEB51

IMPOTENCE IN DIABETES MELLITUS. Renshaw DC *Comp Ther* 2: 47-50, Nov 76 (Eng) DL/77FEB52

MYOCARDIAL INFARCTION IN YOUNGER WOMEN. ASSOCIATED CLINICAL FEATURES AND RELATIONSHIP TO USE OF ORAL CONTRACEPTIVE DRUGS. Arthes FG, Masi AT *Chest* 70: 574-83, Nov 76 (Eng) DL/77FEB60

[CARDIAC INFARCTION IN THE ELDERLY] Konu V *Duodecim* 92: 1028-34, 1976 (Fin) DL/77FEB65

DIABETES MELLITUS AND OSTEOPOROSIS. Forgacs S, Rosinger A, Vertes L *Endokrinologie* 67: 343-50, 1976 (Eng) DL/77FEB69

[DIABETES AND AUTOIMMUNE DISEASES (AUTHORS TRANSL.)] Bastenic PA *Diabete Metab* 1: 3-6, Mar 75 (Fre) DL/77FEB85

[DIABETES MELLITUS UNDER 30 YEARS OF AGE. RESULTS OF 18 YEARS EXPERIENCE WITH ORAL TREATMENT (AUTHORS TRANSL.)] Mirouze J, Cartry E *Diabete Metab* 1: 113-8, Jun 75 (Fre) DL/77FEB92

PLASMA RENIN ACTIVITY AND HYPERTENSION IN DIABETES MELLITUS. Christlieb AR, Kaldany A, Delia JA *Diabetes* 25: 969-74, Oct 76 (Eng) DL/77FEB105

LUTEINIZING RELEASE HORMONE TESTS IN IMPOTENT DIABETIC MALES. Wright AD, London DR, Holder G, Williams JW, Rudd BT *Diabetes* 25: 975-7, Oct 76 (Eng) DL/77FEB106

PEPTIC ULCER IN DIABETES MELLITUS. Masuda H, Inoue S, Arakawa H, Koizumi K, Kubo N *Gastroenterol Jpn* 11: 1-4, 1976 (Eng) DL/77FEB128

TISSUE CONCENTRATIONS OF ANTIBIOTICS. Mannheimer C, Brorson JE *J Antimicrob Chemother* 2: 313-4, Sep 76 (Eng) DL/77FEB156

ORAL CANDIDA, DEBILITATING DISEASE AND ATROPHIC LESIONS OF THE TONGUE. Farman AG, Nutt G *J Biol Buccale* 4: 203-26, SEP 76 (Eng) DL/77FEB158

MONCKEBERGS ARTERIOSCLEROSIS REVISITED: OR SILVER VESSELS AMONG THE OLD. Moskowitz M, Verani M *J Can Assoc Radiol* 27: 200-2, Sep 76 (Eng) DL/77FEB162

COMPARISON OF HOSPITAL ADMISSIONS FOR CEREBROVASCULAR DISEASE IN MICHIGAN AND NORTH CAROLINA. Wylie CM, Carpenter JO *J Community Health* 2: 21-30, Fall 76 (Eng) DL/77FEB170

DIABETIC FOOT CARE EDUCATION IN A PODIATRY CLINIC: A PILOT STUDY. Scarlett JJ, Conner JC, Monastersky C *J Am Podiatry Assoc* 66: 798-800, Oct 76 (Eng) DL/77FEB173

BONE AND JOINT CHANGES IN THE DIABETIC FOOT. Buchman NH *J Am Podiatry Assoc* 66: 211-26, Apr 76 (Eng) DL/77FEB175

THE ROLE OF NUTRITION TO DIABETES IN RELATION TO AGE. PP. 229-52. Gerritsen GC In: Rockstein M, Sussman ML, ed. *Nutrition, longevity, and aging*. New York, Academic Press, 1976. WT 104 N977 1976. (Eng) [84] DL/77FEB193

[A STUDY OF ROENTGENOLOGIC AORTIC CALCIFICATION, GLUCOSE TOLERANCE,

AND INSULIN SECRETORY RESPONSE (AUTHORS TRANSL.) Tanaka T, Seki A, Fujii J, Kuzuya N *J Jpn Soc Intern Med* 65: 569-74, 10 Jun 76 (Jpn) DL/77FEB195

SUBACUTE ENCEPHALOMENINGITIS STRICTLY INVOLVING THE BRAIN STEM AND DIABETES MELLITUS. Shuangshoti S, Viratchai C, Sreesai M *J Med Assoc Thai* 59: 464-9, Oct 76 (Eng) DL/77FEB198

REACTIVE HYPERGLYCAEMIA IN PATIENTS WITH ACUTE STROKE. Melamed E *J Neurol Sci* 29: 267-75, Oct 76 (Eng) DL/77FEB200

ATROPHIC LESIONS OF THE TONGUE: A PREVALENCE STUDY AMONG 175 DIABETIC PATIENTS. Farman AG *J Oral Pathol* 5: 255-64, Sep 76 (Eng) DL/77FEB206

BISALBUMINEMIA AND DIABETES [LETTER] Vladutiu AO *JAMA* 236: 2393, 22 Nov 76 (Eng) DL/77FEB220

[SURGICAL DISEASES ACCOMPANYING DIABETES MELLITUS] Kashkin KA *Khirurgia (Mosk)* 105-11, Mar 76 (Rus) DL/77FEB224

[TREATMENT OF MOIST GANGRENE OF THE LOWER LIMBS IN PATIENTS WITH DIABETES MELLITUS] Struchkov VI, Grigorian AV, Oganessian SS *Khirurgia (Mosk)* 63-8, Sep 76 (Rus) DL/77FEB225

[CHARACTERISTICS OF THYROTOXICOSIS ASSOCIATED WITH DIABETES MELLITUS] Kuleshov EV *Khirurgia (Mosk)* 83-7, Sep 76 (Rus) DL/77FEB226

NATURAL HISTORY OF CORONARY HEART DISEASE. Gorlin R *Major Probl Intern Med* 11: 195-215, 1976 (Eng) DL/77FEB236

THERAPY TO CONTROL CORONARY ATHEROSCLEROSIS AND ITS COMPLICATIONS. Gorlin R *Major Probl Intern Med* 11: 281-92, 1976 (Eng) DL/77FEB237

HYPERGLYCAEMIA AND DIABETES MELLITUS. Jarrett RJ, Keen H *Lancet* 2: 1009-12, 6 Nov 76 (Eng) DL/77FEB250

CRITERIA FOR DIAGNOSIS OF ALDOSTERONE BIOSYNTHETIC DEFECTS [LETTER]. Rossier A, Ulick S *N Engl J Med* 295: 1383, 9 Dec 76 (Eng) DL/77FEB325

[FATTY LIVER IN A HOSPITAL POPULATION, 1970-1974] Haagsma B, Marck K, van der Woude FJ *Ned Tijdschr Geneesk* 120: 1625-30, 25 Sep 76 (Dut) DL/77FEB328

[CARBOHYDRATE METABOLISM AND ENDOMETRIAL CARCINOMA] Orlandi C *Minerva Ginecol* 28: 219-26, Mar 76 (Ita) DL/77FEB330

SALVAGE OF THE DIABETIC FOOT BY VASCULAR RECONSTRUCTION. Karmody AM, Jacobs RL *Orthop Clin North Am* 7: 957-77, Oct 76 (Eng) DL/77FEB333

[PARODONTOPATHY REVEALING INSULIN-DEPENDANT DIABETES (LETTER)] Pinget M, Dörner M, Brocard JM, Comte F, Farge R, Roth JJ *Nouv Presse Med* 5: 1995, 25 Sep 76 (Fre) DL/77FEB340

[LACTIC ACIDOSIS IN DIABETES MELLITUS (AUTHORS TRANSL.)] Buess HJ, Mihatsch MJ, Wunderlich P, Berger W *Praxis* 65: 406-13, 6 Apr 76 (Ger) DL/77FEB353

[INSULIN-DEPENDENT DIABETES DURING THE THIRD LIFE-PERIOD] Hoet JJ *Probl Actuels Endocrinol Nutr* serie 17: 185-91, 1973 (Fre) DL/77FEB356

WIDESPREAD JUXTA-ARTICULAR BONE NECROSIS IN A TUNNELER. Sewell JR, Jary C *Proc R Soc Med* 69: 706-7, Sep 76 (Eng) DL/77FEB361

[GALL-BLADDER CHANGES IN DIABETICS (AUTHORS TRANSL.)] Forgacs S *Radiol Diagn (Berl)* 17: 51-5, 1976 (Ger) DL/77FEB368

[BLOOD LIPIDS, DIABETES AND ARTERIOSCLEROSIS] Guy-Grand B, Bigorie B, Bour H *Rev Prat* 26: 3097-107, 11 Oct 76 (Fre) DL/77FEB382

[CARDIOVASCULAR COMPLICATIONS OF DIABETES] Darnaud C, Darnaud J *Rev Prat* 26: 3111-7, 11 Oct 76 (Fre) DL/77FEB383

[GANGRENE OF THE NASAL CONCHAS AND NASAL SEPTUM, RETROBULBAR ABSCESS AND RHINOGENIC SEPSIS IN A PATIENT WITH DIABETES MELLITUS] Sagalchik IaS *Zh Vyssh Nerv Deiat* 26: 100-1, Jun-Aug 76 (Rus) DL/77FEB442

[THE INFLUENCE OF CORTISOL TREATMENT ON THE DEVELOPMENT OF DIABETIC CATARACTS IN RATS (AUTHORS TRANSL.)] Koch HR, Hillenbink M, Liappis N *Abrecht von Graefes Arch Klin Ophthalmol* 200: 211-22, 1976 (Ger) DL/77FEB482

CHEMICAL LUMBAR SYMPLECTOMY. Hughes-Davies DI, Redman LR *Anaesthesia* 31: 1068-75, Oct 76 (Eng) DL/77FEB483

1.F.6.7 DIABETES PATHOLOGY

QUANTITATIVE EVALUATION OF SOMATOTROPIC CELLS (SC) IN THE ADENOHYPOPHYSIS OF NORMAL AND DIABETIC MALE CHINESE HAMSTERS. Deslex P, Rossi GL *Diabetologia* 12: 489-93, Oct 76 (Eng) DL/77FEB117

ISLET TRANSPLANTATION IN EXPERIMENTAL DIABETES OF THE RAT. V. REGRESSION OF GLOMERULAR LESIONS IN DIABETIC RATS AFTER INTRAPORTAL TRANSPLANTATION OF ISOGENEIC ISLETS. PRELIMINARY RESULTS. Federlin K, Bretzel RG, Schmidchen U *Horm Metab Res* 8: 404-6, Sep 76 (Eng) DL/77FEB148

ATROPHIC LESIONS OF THE TONGUE: A PREVALENCE STUDY AMONG 175 DIABETIC PATIENTS. Farman AG *J Oral Pathol* 5: 255-64, Sep 76 (Eng) DL/77FEB206

IS DIABETES A MODEL FOR AGING Shagan BP *Med Clin North Am* 60: 1209-11, 1976 (Eng) DL/77FEB241

THE MICROANATOMY OF THE ISLETS OF LANGERHANS. Orci L *Metabolism* 25: 1303-13, Nov 76 (Eng) [30] DL/77FEB262

A RADIOGRAPHIC STUDY OF NUTRIENT CANALS. Patel JR, Wuehrmann AH *Oral Surg* 42: 693-701, Nov 76 (Eng) DL/77FEB332

1.F.6.8 PREGNANCY IN DIABETES

THE EFFECT OF ORAL RITODRINE ON MATERNAL AND FETAL CARBOHYDRATE METABOLISM. Blouin D, Murray MA, Beard RW *Br J Obstet Gynaecol* 83: 711-5, Sep 76 (Eng) DL/77FEB8

[ETRAN (ENFLURANE) ANESTHESIA (LITERATURE SURVEY)] Riabov GA, Semenov VN *Eksp Khir Anesteziol* 86-90, May-Jun 76 (Rus) DL/77FEB66

CLINICAL AND METABOLIC STUDIES IN CHILDREN OF DIABETIC-MOTHERS. Amendt P, Michaelis D, Hildmann W *Endokrinologie* 67: 351-61, 1976 (Eng) DL/77FEB70

[DIABETES MELLITUS UNDER 30 YEARS OF AGE. RESULTS OF 18 YEARS EXPERIENCE WITH ORAL TREATMENT (AUTHORS TRANSL.)] Mirouze J, Cartry E *Diabete Metab* 1: 113-8, Jun 75 (Fre) DL/77FEB92

Diabetes Literature—Hierarchical Index

1.F DIABETES

POSTMATURITY IN THE RAT: IMPAIRMENT OF INSULIN, GLUCAGON, AND GLYCOGEN STORES. Portha B, Rosselin G, Picon L *Diabetologia* 12: 429-36, Oct 76, (Eng) DL/77FEB110

PLASMA CONCENTRATIONS OF UNCONJUGATED ESTRONE, ESTRADIOL-17BETA AND ESTRIOL, AND HCS THROUGHOUT PREGNANCY IN DIABETICS AND GESTATIONAL DIABETICS. De Hertogh R, Thomas K, Hoet JJ, Vanderheyden I *Diabetologia* 12: 455-61, Oct 76 (Eng) DL/77FEB114

EFFECT OF POTASSIUM AND HYPOMAGNESEMIA ON INSULIN IN THE BOVINE. Lentz DE, Madsen FC, Miller JK, Hansard SL *J Anim Sci* 43: 1082-7, Nov 76 (Eng) DL/77FEB154

INFLUENCE OF DIETARY ENERGY DURING GESTATION ON LAMBING PERFORMANCE, AND GLUCOSE METABOLISM IN FINNCROSS EWES. Prior RL, Christenson RK *J Anim Sci* 43: 1114-24, Nov 76 (Eng) DL/77FEB155

[ALPHA FETO PROTEIN, NORMAL PREGNANCIES AND MATERNAL DISEASES, APROPOS OF 3,010 RADIOIMMUNOLOGIC DETERMINATIONS] Brettes JP, Tourne CE, Gandar R *J Gynecol Obstet Biol Reprod (Paris)* 5: 637-44, Jul-Aug 76 (Fre) DL/77FEB176

[HIGH RISK FACTORS OF BREAST CANCER] Hardy A, Loriaux C *J Gynecol Obstet Biol Reprod (Paris)* 5: 657-73, Jul-Aug 76 (Fre) [89] DL/77FEB177

MAMMOTROPIC HORMONES IN RUMINANTS. PP. 422-32. Forsyth IA, Hart IC In *O Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) [91] DL/77FEB184*

RADIORECEPTOR ASSAY OF PLASMA NSILAS IN MAN: BASAL AND STIMULATED LEVELS IN NORMAL AND PATHOLOGIC STATES. PP. 127-40. Megyesi K, Kahn CR, Roth J, Gordon P, Neville DM Jr In *O Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB187*

TIME COURSE OF GLUCOSE-INDUCED INCREASE IN PLASMA INSULIN IN THE RAT FETUS IN UTERO. Dervran A, Girard JR *J Endocrinol* 70: 519-20, Sep 76 (Eng) DL/77FEB199

MATERNAL PROTEIN MALNUTRITION DURING GESTATION ALONE AND ITS EFFECTS ON PLASMA INSULIN LEVELS OF THE PREGNANT PIG, ITS FETUSES AND THE DEVELOPING OFFSPRING. Atinmo T, Baldijao C, Pond WG, Barnes RH *J Nutr* 106: 1647-53, Nov 76 (Eng) DL/77FEB203

RELATIONSHIPS BETWEEN MATERNAL GLUCOSE INTOLERANCE AND NEONATAL BLOOD GLUCOSE. Haworth JC, Dilling LA *J Pediatr* 89: 810-3, Nov 76 (Eng) DL/77FEB207

DOMINANT INHERITANCE DIABETES MELLITUS. Tulloch JA, Adamson DG *J R Coll Physicians Lond* 11: 86-90, Oct 76 (Eng) DL/77FEB214

[FUNCTION TEST OF THE HUMAN FETAL PANCREAS (AUTHORS TRANSL)] Nakai T, Yamada R *Jpn J Clin Pathol* 24: 673-7, Aug 76 (Jpn) DL/77FEB221

DISORDERS OF CARBOHYDRATE METABOLISM IN INFANCY. Cornblath M, Schwartz R *Major Probl Clin Pediatr* 3: 1-483, 1976 (Eng) DL/77FEB235

[PERINATAL MEDICINE IS A COMMON INTEREST FOR MANY SPECIALTIES] Osterberg S *Lakartidningen* 73: 3444-6, 5 Oct 76 (Swe) DL/77FEB242

HYPERGLYCAEMIA AND HYPOGLYCAEMIA DURING PREGNANCY [EDITORIAL]. Anonymous *Lancet* 2: 889-90, 23 Oct 76 (Eng) DL/77FEB246

GLUCAGON AND KETOGENESIS. McGarry JD, Robles-Valdes C, Foster DW *Metabolism* 25: 1387-9, Nov 76 (Eng) DL/77FEB280

[PROGNOSIS OF CHILDREN OF MOTHERS WITH DIABETES MELLITUS] Salvioi GP, Dallacasa P, Bottiglioni F, Guerreschi E *Minerva Pediatr* 28: 212-6, 11 Feb 76 (Ita) DL/77FEB320

[PREVENTION OF BLINDNESS] Litricin O *Nar Zdrav* 31: 189-91, Jul-Aug 75 (Ser) DL/77FEB327

[OBSTETRICAL BRACHIAL PLEXUS INJURIES. A STUDY ON PERINATAL MORBIDITY] Vrouwenarts PE, Arts JP, Kinderneuroloog PF *Ned Tijdschr Geneesk* 120: 1666-72, 2 Oct 76 (Dut) DL/77FEB329

MATERNAL MORTALITY IN DIABETES MELLITUS: AN 18-YEAR SURVEY. Gabbe SG, Mestman JH, Hibbard LT *Obstet Gynecol* 48: 549-51, Nov 76 (Eng) DL/77FEB331

RAPID ONSET OF ESSENTIAL FATTY ACID DEFICIENCY IN THE NEWBORN. Friedman Z, Danon A, Stahlman MT, Oates JA *Pediatrics* 58: 640-9, Nov 76 (Eng) DL/77FEB337

[THE SMALL LEFT COLON SYNDROME. 3 CASES] Neuenschwander S, Montagne JP, Boudou A, Bouron D, Mougenot JF, Gruner M, Faure C *Nouv Presse Med* 6: 2311-4, 23 Oct 76 (Fre) DL/77FEB346

[SELECTED PHSIOPATHOLOGICAL AND CLINICAL ASPECTS OF PURINE METABOLISM] Chodorowski Z *Pol Tyg Lek* 31: 1733-5, 4 Oct 76 (Pol) [30] DL/77FEB349

[THERAPEUTIC REQUIREMENTS OF NON-INSULIN DEPENDENT DIABETES AND ITS VARIANTS] Dorf G, Bour H *Sem Hop Ther* 52: 121-3, Feb 76 (Fre) DL/77FEB400

[ANALYSIS OF BREAST CELL DIFFERENTIATION IN TISSUE CULTURE UNDER THE INFLUENCE OF HORMONES] Kalantar IL, Khristaleva GI, Nechipurenko LV, Medvedev IK *Tsitologia* 18: 1014-9, Aug 76 (Rus) DL/77FEB416

[NEONATAL HYPOGLYCEMIA FOLLOWING BETA BLOCKER TREATMENT IN PREGNANCY] Forthoft B, Jacobsen JR *Ugeskr Laeger* 138: 2958-9, 15 Nov 76 (Dan) DL/77FEB419

[EARLY STAGES OF DIABETES MELLITUS] Dvorakova L *Vnitř Lek* 22: 910-8, Sep 76 (Cze) DL/77FEB426

[GENETIC COUNSELING IN PREVENTIVE MEDICINE] Schnedl W *Wien Med Wochenschr* 126: 565-8, 1 Oct 76 (Ger) DL/77FEB434

NUTRITIONA HEALTH IN A CHANGING SOCIETY - STUDIES FROM ISRAEL. Guggenheim K, Kaufmann NA *World Rev Nutr Diet* 24: 217-40, 1976 (Eng) [67] DL/77FEB436

[BEHAVIOUR OF SERUM CONCENTRATIONS OF GLUCOSE, IMMUNOREACTIVE INSULIN AND POTASSIUM IONS IN NEWBORNS AFTER LONG TERM OR CRASH TREATMENTS WITH PARTUSISTEN OR PARTUSISTEN IN COMBINATION WITH ISOPTIN (AUTHORS TRANSL)] Weidinger H, Mohr D, Haller K, Hiltmann WD, Vogel M *Z Geburtshilfe Perinatol* 180: 258-65, Aug 76 (Ger) DL/77FEB439

CEREBRAL LESIONS OF MATURE NEWBORN DUE TO PERINATAL HYPOXIA. II. MOTHERS DISEASES. Nyka WM *Z Geburtshilfe Perinatol* 180: 295-9, Aug 76 (Eng) DL/77FEB440

[CLINICAL PROBLEMS OF PREMATURE LABOR. I. DIAGNOSIS OF THREATENING PREMATURE LABOR AND THE SCREENING PROCEDURE] Bayer H, Issel EP, Agricola H, Roigas E *Zentralbl Gynaekol* 98: 1025-34, 1976 (Ger) DL/77FEB447

INSULIN TREATMENT OF GESTATIONAL DIABETICS. Drazancic A, Kuvacic I *Acta Med Jugosl* 30: 341-53, 1976 (Eng) DL/77FEB459

INTENSIVE CARE OF THE PREGNANT DIABETIC. Gugliucci CL, OSullivan MJ, Opperman W, Gordon M, Stone ML *Am J Obstet Gynecol* 125: 435-41, 15 JUN 76 (Eng) DL/77FEB469

[CONCENTRATION OF PREGNANCY-SPECIFIC-BETA-1-PROTEIN SPI IN AMNIOTIC FLUID IN NORMAL AND PATHOLOGIC PREGNANCIES (AUTHORS TRANSL)] Tatra G, Polak S, Placheta P *Arch Gynaekol* 221: 161-6, 17 Sep 76 (Ger) DL/77FEB494

EFFECTS OF HORMONES ON PROTEIN AND AMINO ACID METABOLISM IN MAMMARY-GLAND EXPLANTS OF MICE. Anderson LD, Rillema JA *Biochem J* 158: 355-9, 15 Aug 76 (Eng) DL/77FEB506

[PREVENTIVE MEASURES AGAINST INFANT MORTALITY AND CEREBRAL DISEASES ASSOCIATED WITH PREMATURITY] Duc G *Gynaekol Rundsch* 15 suppl 1: 34-8, 1975 (Fre) *DL/77FEB562

1.F.7 DIABETES OCCURRENCE, ETIOLOGY AND RELATED TERMS

1.F.7.1 DIABETES, OCCURRENCE

[DIABETES MELLITUS IN PHEOCHROMOCYTOMA] Sudre Y, Becq-Giraudon B, Pouget-Abadie JF, Boutaud P, Barbier J, Meriel P, Gasquet C, Babin P *Sem Hop Paris* 52: 1893-902, 16 OCT 76 (Fre) DL/77FEB399

NUTRITIONA HEALTH IN A CHANGING SOCIETY - STUDIES FROM ISRAEL. Guggenheim K, Kaufmann NA *World Rev Nutr Diet* 24: 217-40, 1976 (Eng) [67] DL/77FEB436

1.F.7.2 DIABETES, ETIOLOGY

CLINICAL AND METABOLIC STUDIES IN CHILDREN OF DIABETIC-MOTHERS. Amendt P, Michaelis D, Hildmann W *Endokrinologie* 67: 351-61, 1976 (Eng) DL/77FEB70

IS DIABETES A FORM OF ACCELERATED AGING? Kent S *Geriatrics* 31: 140, 145, 149-51, Nov 76 (Eng) DL/77FEB131

ADRENAL AND LIVER PARTICIPATION IN THE RATS POST-STRESS DIABETIC RESPONSE. Vargas I, Kawada ME *Horm Metab Res* 8: 383-8, Sep 76 (Eng) DL/77FEB144

DIETARY FIBER--IN HISTORICAL PERSPECTIVE. Bing FC *J Am Diet Assoc* 69: 498-505, Nov 76 (Eng) [33] DL/77FEB172

THE ROLE OF NUTRITION TO DIABETES IN RELATION TO AGE. PP. 229-52. Gerritsen GC In *Rockstein M, Sussman ML, ed. Nutrition, longevity, and aging. New York, Academic Press, 1976. WT 104 N977 1976. (Eng) [84] DL/77FEB193*

1.F DIABETES

SEPARATE AUTOANTIBODIES TO HUMAN PANCREATIC GLUCAGON AND SOMATOSTATIN CELLS. Bottazzo GF, Lendrum R *Lancet* 2: 873-6, 23 Oct 76 (Eng) DL/77FEB244

GENETIC ORIGIN OF DIABETES [LETTER]. Rosenthal MB, Goldfine ID, Siperstein MD *Lancet* 2: 908-9, 23 Oct 76 (Eng) DL/77FEB247

[TOTAL PANCREATECTOMY (EDITORIAL)] Trede M *Langenbecks Arch Chir* 340: 227-30, 23 Apr 76 (Ger) DL/77FEB254

TOTAL PANCREATECTOMY IN THE TREATMENT OF ACUTE NECROTISING AND HEMORRHAGIC PANCREATITIS. INDICATIONS-TECHNIQUE. Alexandre JH, Chambon H, Assan R *Langenbecks Arch Chir* 340: 231-47, 23 Apr 76 (Eng) DL/77FEB255

PLASMA GLUCAGON IN DIABETES RESULTING FROM TOTAL PANCREATECTOMY [PROCEEDINGS]. Bloom SR, Barnes AJ, Bryant MG, Alherti KG *Metabolism* 25: 1481-2, Nov 76 (Eng) DL/77FEB304

[3 INCIDENTAL OBSERVATIONS OF PACHYDERMO-PERIOSTOSIS] Djian A, Seboun J, Beasley N *Rev Rhum Mal Osteoartic* 43: 528-32, Jul-Sep 76 (Fre) DL/77FEB389

[DIABETES MELLITUS IN PHEOCHROMOCYTOMA] Sudre Y, Becq-Giraudon B, Pouget-Abadie JF, Boutaud P, Barbier J, Meriel P, Gasquet C, Babin P *Sem Hop Paris* 52: 1893-902, 16 OCT 76 (Fre) DL/77FEB399

[EARLY POSTNATAL OVERFEEDING AS AN ETIOPATHOGENETIC FACTOR IN ADULT OBESITY] Dörner G, Hagen N, Witthuhn W *Acta Biol Med Ger* 35: 799-803, 1976 (Ger) DL/77FEB453

CHANGES IN CARBOHYDRATE METABOLISM AND ENDOCRINE FUNCTION OF REMNANT PANCREAS AFTER MAJOR PANCREATIC RESECTION. Yasugi H, Mizumoto R, Sakurai H, Honjo I *Am J Surg* 132: 577-80, Nov 76 (Eng) DL/77FEB477

1.F.7.3 DIABETES, CONGENITAL

1.F.7.4 DIABETES, FAMILIAL AND GENETIC

ELEVATED KIDNEY GLUCOSYLTRANSFERASE ACTIVITY IN GENETIC PRE-DIABETIC MICE. Reddi AS, Oppermann W, Reddy MP, Velasco CA, Camerini-Davalos RA *Experientia* 32: 1237-8, 15 Oct 76 (Eng) DL/77FEB75

[PROPORTION OF LOW INSULIN RESPONDERS TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL.)] Vague P, Ramahandridona G, Vague J *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77FEB87

[GENETICS OF DIABETES MELLITUS (AUTHORS TRANSL.)] Feingold J *Diabete Metab* 1: 123-9, Jun 76 (Fre) [34] DL/77FEB97

THE ROLE OF NUTRITION TO DIABETES IN RELATION TO AGE. PP. 229-52. Gerritsen GC *In: Rockstein M, Sussman ML, ed. Nutrition, longevity, and aging. New York, Academic Press, 1976. WT 104 N977 1976. (Eng) [84] DL/77FEB193*

DOMINANT INHERITANCE DIABETES MELLITUS. Tulloch JA, Adamson DG *J R Coll Physicians Lond* 11: 86-90, Oct 76 (Eng) DL/77FEB214

BISALBUMINEMIA AND DIABETES [LETTER] Vladutiu AO *JAMA* 236: 2393, 22 Nov 76 (Eng) DL/77FEB220

GENETIC ORIGIN OF DIABETES [LETTER]. Rosenthal MB, Goldfine ID, Siperstein MD *Lancet* 2: 908-9, 23 Oct 76 (Eng) DL/77FEB247

HLA AND JUVENILE DIABETES MELLITUS IN THE JAPANESE [LETTER]. Wakisaka A, Aizawa M, Matsuura N, Nakagawa S, Nakayama E *Lancet* 2: 970, 30 Oct 76 (Eng) DL/77FEB249

INHERITANCE OF DIABETES MELLITUS [LETTER]. Rosenthal MB, Goldfine ID, Siperstein MD *N Engl J Med* 295: 1321, 2 Dec 76 (Eng) DL/77FEB324

[HL-A SYSTEM AND DIABETES MELLITUS] Scherthaner G, Ludwig H, Eibl M, Erd W, Pacher M, Mayr WR *Schweiz Med Wochenschr* 106: 514-7, 10 Apr 76 (Ger) DL/77FEB394

[GENETIC COUNSELING IN PREVENTIVE MEDICINE] Schnedl W *Wien Med Wochenschr* 126: 565-8, 1 Oct 76 (Ger) DL/77FEB434

1.F.7.5 PREDIABETIC STATE

CLINICAL AND METABOLIC STUDIES IN CHILDREN OF DIABETIC-MOTHERS. Amendt P, Michaelis D, Hildmann W *Endokrinologie* 67: 351-61, 1976 (Eng) DL/77FEB70

ELEVATED KIDNEY GLUCOSYLTRANSFERASE ACTIVITY IN GENETIC PRE-DIABETIC MICE. Reddi AS, Oppermann W, Reddy MP, Velasco CA, Camerini-Davalos RA *Experientia* 32: 1237-8, 15 Oct 76 (Eng) DL/77FEB75

BLOOD GLUCOSE MONITORING IN SYMPTOMATIC HYPOGLYCEMIA. Cole RA, Benedict GW, Margolis S, Kowarski A *Diabetes* 25: 984-8, Oct 76 (Eng) DL/77FEB108

THE ROLE OF NUTRITION TO DIABETES IN RELATION TO AGE. PP. 229-52. Gerritsen GC *In: Rockstein M, Sussman ML, ed. Nutrition, longevity, and aging. New York, Academic Press, 1976. WT 104 N977 1976. (Eng) [84] DL/77FEB193*

EVIDENCE FOR AN INSULIN-INDEPENDENT ALPHA-CELL ABNORMALITY IN HUMAN DIABETES. Bennett PH, Aronoff SL, Unger RH *Metabolism* 25: 1527-9, Nov 76 (Eng) DL/77FEB316

[FATTY ACID PATTERNS AND GLUCOSE TOLERANCE IN HUNTINGTONS CHOREA (AUTHORS TRANSL.)] Schubotz R, Hausmann L, Kaffarnik H, Zehner J, Oepen H *Res Exp Med (Berl)* 167: 203-15, 2 Jul 76 (Ger) DL/77FEB376

[EARLY STAGES OF DIABETES MELLITUS] Dvorakova L *Vnitř Lek* 22: 910-8, Sep 76 (Cze) DL/77FEB426

[COMPARATIVE QUANTITATIVE RAPID DETERMINATION OF BLOOD SUGAR BY MEANS OF VARIOUS REFLECTOMETER-SYSTEMS] Scherthaner G, Erd W, Sinzinger H, Penner E *Wien Med Wochenschr* 126: 571-4, 1 Oct 76 (Ger) DL/77FEB435

[COMPARATIVE STUDIES ON THE ORAL GLUCOSE TOLERANCE USING 50 AND 100G OF GLUCOSE WITH SPECIAL REFERENCE TO VARIOUS LIPID-METABOLISM PARAMETERS] Meinel H, Wolff E *Z Aertzt Fortbild (Jena)* 70: 943-6, 1 Sep 76 (Ger) DL/77FEB437

INDUCTION OF GLYCOSURIA AND HYPERGLYCEMIA BY TOPICAL CORTICOSTEROID THERAPY. Gomez EC, Frost P *Arch Dermatol* 112: 1559-62, Nov 76 (Eng) DL/77FEB489

1.F.8 DIABETES, DIAGNOSIS RELATED

1.F.8.1 GLUCOSE TOLERANCE TEST (SEE SEC. 1.E.2)

1.F.8.2 DIABETES, DIAGNOSIS

MODE OF PRESENTATION OF JUVENILE DIABETES. Hamilton DV, Mundia SS, Lister J *Br Med J* 2: 211-2, 24 Jul 76 (Eng) DL/77FEB20

TREATMENT OF ASYMPTOMATIC DIABETES MELLITUS. Reaven GM *Compr Ther* 2: 22-8, Nov 76 (Eng) DL/77FEB49

[PROPORTION OF LOW INSULIN RESPONDERS TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL.)] Vague P, Ramahandridona G, Vague J *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77FEB87

DISORDERS OF CARBOHYDRATE METABOLISM IN INFANCY. Cornblath M, Schwartz R *Major Probl Clin Pediatr* 3: 1-483, 1976 (Eng) DL/77FEB235

DIABETES IN THE ELDERLY PATIENT. Shagan BP *Med Clin North Am* 60: 1191-208, 1976 (Eng) [20] DL/77FEB240

HYPERGLYCAEMIA AND DIABETES MELLITUS. Jarrett RJ, Keen H *Lancet* 2: 1009-12, 6 Nov 76 (Eng) DL/77FEB250

[LONG-TERM PROGNOSIS OF INFANTILE DIABETES (EDITORIAL)] Lestrade H, Besse J, Billaud L, Battistelli F, Tric F, Lestrade F *Nouv Presse Med* 6: 2297-8, 23 Oct 76 (Fre) DL/77FEB345

[GLUCOSE TOLERANCE TESTS WITH ORAL GLUCOSE CHALLENGES OF 50 AND 100 GRAMS (AUTHORS TRANSL.)] Federico RD, Jablonka S, Mello EH, Reis LC *Rev Bras Pesqui Med Biol* 9: 213-6, Sep 76 (Por) DL/77FEB371

[EARLY STAGES OF DIABETES MELLITUS] Dvorakova L *Vnitř Lek* 22: 910-8, Sep 76 (Cze) DL/77FEB426

[POSSIBLE SOURCES OF ERROR IN FALSE EXAMINATION RESULTS DURING THE USE OF BIOPHAN-G-TEST-STRIPS] Heller H, Endres A *Z Aertzt Fortbild (Jena)* 70: 946-9, 1 Sep 76 (Ger) DL/77FEB438

[CURRENT URINALYSIS] Neuhauser P *Zahnärztl Mitt* 66: 1044-6, 16 Oct 76 (Ger) DL/77FEB446

1.F.9 DIABETES, THERAPY RELATED

1.F.9.1 DIABETES, PREVENTION AND CONTROL

1.F.9.2 DIABETES, NUTRITION AND DIET THERAPY

1.F.9.2.1 OBESITY IN DIABETES

[PROPORTION OF LOW INSULIN RESPONDERS TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL.)] Vague P, Ramahandridona G, Vague J *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77FEB87

[DIABETES MELLITUS UNDER 30 YEARS OF AGE. RESULTS OF 18 YEARS EXPERIENCE WITH ORAL TREATMENT (AUTHORS TRANSL.)] Mirouze J, Cartry E *Diabete Metab* 1: 113-8, Jun 75 (Fre) DL/77FEB92

Diabetes Literature—Hierarchical Index

1.F DIABETES

GASTRIC INHIBITORY POLYPEPTIDE (GIP) IN MATURITY-ONSET DIABETES MELLITUS. Crockett SE, Mazzaferri EL, Cataland S *Diabetes* 25: 931-5, Oct 76 (Eng) DL/77FEB99

TWO MINUTES WITH DIABETES. Whitehouse FW *Med Times* 104: 121, 127, Oct 76 (Eng) DL/77FEB256

CARBOHYDRATE TOLERANCE AND OBESITY. Bredidahi HD *Med J Aust* 1: 9-10, 19 Jun 76 (Eng) DL/77FEB319

[DIABETES AND THE THIRD LIFE-PERIOD] Codaccioni JL, Aprile N *Probl Actuels Endocrinol Nutr serie* 17: 167-83, 1973 (Fre) [62] DL/77FEB355

[INTESTINAL BY-PASS FOR OBESITY (AUTHORS TRANSL.)] Van Baden M *Acta Chir Belg* 75: 269-93, May 76 (Dut) DL/77FEB454

PLASMA LEVELS OF FRACTIONATED ESTROGENS AND PITUITARY HORMONES IN ENDOMETRIAL CARCINOMA. Benjamin F, Deutsch S *Am J Obstet Gynecol* 126: 638-47, 15 Nov 76 (Eng) DL/77FEB470

1.F.9.2.2 GLUCOSE, THERAPEUTIC USE

[CLINICAL UNSPECIFICITY AND METABOLIC SPECIFICITY OF THE POLARIZING SOLUTION (AUTHORS TRANSL.)] Sodi-Pallares D *Folia Clin Int (Barc)* 26: 7-13, Jan 76 (Spa) [83] DL/77FEB81

INFLUENCE OF POLARIZING INFUSIONS ON ANTHARRHYTHMIC EFFECTS OF BETA-BLOCKERS. Rossi P, Araldi D, Cernigliaro C, DAulerio M, Carcano G *G Ital Cardiol* 6: 620-7, 1976 (Eng) DL/77FEB126

DISORDERS OF CARBOHYDRATE METABOLISM IN INFANCY. Cornblath M, Schwartz R *Major Probl Clin Pediatr* 3: 1-483, 1976 (Eng) DL/77FEB235

[HYPOGLYCAEMIA (AUTHORS TRANSL.)] Uebersax R, Jeanmonod D, Meyrat CA *Praxis* 65: 504-9, 27 Apr 76 (Fre) DL/77FEB354

1.F.9.2.3 DIET

PHYSIOLOGY AND PATHOPHYSIOLOGY OF GLUCAGON. Unger RH, Orci L *Physiol Rev* 56: 778-826, Oct 76 (Eng) [164] DL/77FEB365

[THE ENDOCRINE CELLS OF THE GASTROINTESTINAL EPITHELIUM AND THE METABOLISM OF BIOGENIC AMINES IN THE GASTROINTESTINAL TRACT (AUTHORS TRANSL.)] Grube D *Prog Histochem Cytochem* 8: 1-128, 1976 (Ger) [968] DL/77FEB369

DIET-INDUCED ALTERATIONS OF HIGH SECRETION IN MAN. Merimee TJ, Pulkkinen AJ, Burton CE *J Clin Endocrinol Metab* 62: 931-7, May 76 (Eng) *DL/77FEB578

[BEHAVIOR OF KETONE BODIES, BLOOD LIPIDS AND OF VARIOUS LABORATORY-CHEMISTRY PARAMETERS DURING ISOCALORIC HIGH-CARBOHYDRATE AND HIGH-FAT REDUCING DIETS] Schubert WR, Vogel B, Schmulling RM, Eggstein M *Verh Dtsch Ges Inn Med* 81: 1397-1400, 1975 (Ger) *DL/77FEB684

[TRANSPORT OF FREE FATTY ACIDS AND ENERGY METABOLISM DURING HYPO- AND HYPERCALORIC FORMULA DIETS] Schonborn J, Dadrich E, Rabast U, Kasper H *Verh Dtsch Ges Inn Med* 81: 1402-5, 1975 (Ger) *DL/77FEB685

A MODEL FOR THERAPEUTIC INTERVENTIONS ON ESTABLISHED CORONARY ATHEROSCLEROSIS IN A NONHUMAN PRI-

MATE. Malinow MR, McLaughlin O, Papworth L, Naito HK, Lewis L, McNulty WP *Adv Exp Med Biol* 67: 3-31, 1976 (Eng) *DL/77FEB694

INBRED MICE AND THEIR HYBRIDS AS AN ANIMAL MODEL FOR ATHEROSCLEROSIS RESEARCH. Roberts A, Thompson JS *Adv Exp Med Biol* 67: 313-327, 1976 (Eng) *DL/77FEB695

THE NONHUMAN PRIMATES AS MODELS FOR STUDYING HUMAN ATHEROSCLEROSIS: STUDIES ON THE CHIMPANZEE, THE BABOON AND THE RHESUS MACACUS. Blaton V, Peeters H *Adv Exp Med Biol* 67: 33-64, 1976 (Eng) *DL/77FEB696

THE BABOON IN ATHEROSCLEROSIS RESEARCH: COMPARISON WITH OTHER SPECIES AND USE IN TESTING DRUGS AFFECTING LIPID METABOLISM. Howard AN *Adv Exp Med Biol* 67: 77-87, 1976 (Eng) *DL/77FEB698

1.F.9.2.4 DIABETIC DIET

DIETS FOR DIABETICS [LETTER]. Trowell H *Br Med J* 2: 1011-2, 23 Oct 76 (Eng) DL/77FEB30

FIBER AND DIABETES [EDITORIAL]. Ricketts HT *JAMA* 236: 2321-2, 15 Nov 76 (Eng) DL/77FEB219

DIABETES IN THE ELDERLY PATIENT. Shagan BP *Med Clin North Am* 60: 1191-208, 1976 (Eng) [20] DL/77FEB240

[HIGH-PROTEIN BREAD FOR DIABETICS] Rojszykowska E, Szelnerowa T, Banek H, Laweck J *Pol Tyg Lek* 31: 1729-31, 4 Oct 76 (Pol) DL/77FEB348

INTENSIVE CARE OF THE PREGNANT DIABETIC. Gugliucci CL, OSullivan MJ, Opperman W, Gordon M, Stone ML *Am J Obstet Gynecol* 125: 435-41, 15 JUN 76 (Eng) DL/77FEB469

1.F.9.2.5 DIETARY CARBOHYDRATES

DIET AND THE DIABETIC [EDITORIAL]. Anonymous *Br Med J* 2: 780, 2 Oct 76 (Eng) DL/77FEB26

DIETS FOR DIABETICS [LETTER]. Trowell H *Br Med J* 2: 1011-2, 23 Oct 76 (Eng) DL/77FEB30

INSULIN SECRETION AND BIOSYNTHESIS IN SUCROSE FED RATS. Laube H, Schatz H, Nierle C, Fussganger R, Pfeiffer EF *Dietetologia* 12: 441-6, Oct 76 (Eng) DL/77FEB112

THYROTOXIC PERIODIC PARALYSIS: A PECULIAR CASE WITH UNUSUAL DYSTONIC BEHAVIOR AND VARIABLE RELATIONS OF PARALYSIS TO SERUM POTASSIUM LEVELS. Kusakabe T, Yoshida M, Nishikawa M *J Clin Endocrinol Metab* 43: 730-40, Oct 76 (Eng) DL/77FEB167

THE ROLE OF NUTRITION TO DIABETES IN RELATION TO AGE. PP. 229-52. Gerritsen GC *In: Rockstein M, Sussman ML, ed. Nutrition, longevity, and aging.* New York, Academic Press, 1976. WT 104 N977 1976. (Eng) [84] DL/77FEB193

KETONIC DIET IN THE MANAGEMENT OF PYRUVATE DEHYDROGENASE DEFICIENCY. Falk RE, Cederbaum SD, Blass JP, Gibson GE, Kark RA, Carrel RE *Pediatrics* 58: 713-21, Nov 76 (Eng) DL/77FEB338

DIET-INDUCED ALTERATIONS OF HIGH SECRETION IN MAN. Merimee TJ, Pulkkinen AJ, Burton CE *J Clin Endocrinol Metab* 62: 931-7, May 76 (Eng) *DL/77FEB578

STEROL BALANCE IN HYPERLIPIDEMIC PATIENTS AFTER DIETARY EXCHANGE OF

CARBOHYDRATE FOR FAT. Ahrens EH Jr *J Lipid Res* 17: 97-106, Mar 76 (Eng) *DL/77FEB595

[PREVENTION OF ARTERIOSCLEROSIS DURING CHILDHOOD: PRELIMINARY RESEARCH] Nigro N, Benso L, Martini A, Balthieri M, Brunet MR, Iudicello P *Minerva Pediatr* 27: 288-312, 18 Feb 75 (Ita) *DL/77FEB611

EFFECT OF DIETARY SUBSTITUTION OF SUCROSE AND ITS CONSTITUENT MONOSACCHARIDES ON THE ACTIVITY OF AROMATIC HYDROXYLASE AND THE LEVEL OF CYTOCHROME P-450 IN HEPATIC MICROSOMES OF GROWING RATS. Basu TK, Dickerson JW, Parke DV *Nutr Metab* 18: 302-9, 1975 (Eng) *DL/77FEB614

[BEHAVIOR OF KETONE BODIES, BLOOD LIPIDS AND OF VARIOUS LABORATORY-CHEMISTRY PARAMETERS DURING ISOCALORIC HIGH-CARBOHYDRATE AND HIGH-FAT REDUCING DIETS] Schubert WR, Vogel B, Schmulling RM, Eggstein M *Verh Dtsch Ges Inn Med* 81: 1397-1400, 1975 (Ger) *DL/77FEB684

1.F.9.2.6 DIETARY FATS

METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E *Diabete Metab* 1: 77-85, Jun 75 (Eng) DL/77FEB95

EFFECT OF PHENFORMIN AND ETHYLOESTRENOL ON BLOOD FIBRINOLYTIC ACTIVITY ON RABBITS MAINTAINED ON HIGH CHOLESTEROL DIET. Sharma KK, Chowdhury NK, Sharma AL *Indian J Med Res* 64: 915-22, Jun 76 (Eng) DL/77FEB149

THE ROLE OF NUTRITION IN HUMAN AGING. PP. 29-45. Caster WO *In: Rockstein M, Sussman ML, ed. Nutrition, longevity, and aging.* New York, Academic Press, 1976. WT 104 N977 1976. (Eng) [71] DL/77FEB192

RAPID ONSET OF ESSENTIAL FATTY ACID DEFICIENCY IN THE NEWBORN. Friedman Z, Danon A, Stahlman MT, Oates JA *Pediatrics* 58: 640-9, Nov 76 (Eng) DL/77FEB337

KETONIC DIET IN THE MANAGEMENT OF PYRUVATE DEHYDROGENASE DEFICIENCY. Falk RE, Cederbaum SD, Blass JP, Gibson GE, Kark RA, Carrel RE *Pediatrics* 58: 713-21, Nov 76 (Eng) DL/77FEB338

INFLUENCE OF FAT INGESTION ON LECITHIN:CHOLESTEROL ACYL TRANSFER RATE IN PLASMA OF NORMAL PERSONS. Wallentin L, Vikrot O *Scand J Clin Lab Invest* 36: 473-9, Sep 76 (Eng) DL/77FEB392

DIET-INDUCED ALTERATIONS OF HIGH SECRETION IN MAN. Merimee TJ, Pulkkinen AJ, Burton CE *J Clin Endocrinol Metab* 62: 931-7, May 76 (Eng) *DL/77FEB578

STEROL BALANCE IN HYPERLIPIDEMIC PATIENTS AFTER DIETARY EXCHANGE OF CARBOHYDRATE FOR FAT. Ahrens EH Jr *J Lipid Res* 17: 97-106, Mar 76 (Eng) *DL/77FEB595

[PREVENTION OF ARTERIOSCLEROSIS DURING CHILDHOOD: PRELIMINARY RESEARCH] Nigro N, Benso L, Martini A, Balthieri M, Brunet MR, Iudicello P *Minerva Pediatr* 27: 288-312, 18 Feb 75 (Ita) *DL/77FEB611

[EFFECT OF UNSATURATED DIETARY FATS ON GROWTH AND LIPOGENESIS IN RATS] Demarne Y, Toure M, Flanz J, Lecourtier MJ *Nutr Metab* 19: 28-40, 1975 (Fre) *DL/77FEB615

1.F DIABETES

MODIFICATION OF CELLULAR LIPID METABOLISM BY PSYCHOLOGICAL STRESS. Rose KD, Ursick J, Maca R *Recent Adv Stud Cardiac Struct Metab* 1: 729-41, 1972 (Eng) *DL/77FEB653

INFLUENCES OF DIETARY FATS ON THE CORONARY FLOW AND OXYGEN CONSUMPTION OF THE ISOLATED RAT HEART. de Deckere EA, ten Hoor F *Recent Adv Stud Cardiac Struct Metab* 7: 475-83, 1975 (Eng) *DL/77FEB676

[BEHAVIOR OF KETONE BODIES, BLOOD LIPIDS AND OF VARIOUS LABORATORY-CHEMISTRY PARAMETERS DURING ISOCALORIC HIGH-CARBOHYDRATE AND HIGH-FAT REDUCING DIETS] Schubert WR, Vogel B, Schmulling RM, Eggstein M *Verh Dtsch Ges Inn Med* 81: 1397-1400, 1975 (Ger) *DL/77FEB684

RABBITS AS A MODEL FOR THE STUDY OF HYPERLIPOPROTEINEMIA AND ATHEROSCLEROSIS. Shore B, Shore V *Adv Exp Med Biol* 67: 123-41, 1976 (Eng) *DL/77FEB693

THE BARBOON IN ATHEROSCLEROSIS RESEARCH: COMPARISON WITH OTHER SPECIES AND USE IN TESTING DRUGS AFFECTING LIPID METABOLISM. Howard AN *Adv Exp Med Biol* 67: 77-87, 1976 (Eng) *DL/77FEB698

1.F.9.2.7 CYCLAMATES

1.F.9.2.8 SACCHARIN

CANCER MORTALITY AND SACCHARIN CONSUMPTION IN DIABETICS. Armstrong B, Lea AJ, Adelstein AM, Donovan JW, White GC, Ruttle S *Br J Prev Soc Med* 30: 151-7, Sep 76 (Eng) DL/77FEB19

1.F.9.3 DIABETES, INSULIN AND THERAPY

1.F.9.3.1 INSULIN, ADMINISTRATION AND DOSAGE

NEW INSULIN REGIMENS FOR SEVERE DIABETIC KETOSIS. Anonymous *Drug Ther Bull* 14: 77-9, 24 Sep 76 (Eng) DL/77FEB63

INFLUENCE OF POLARIZING INFUSIONS ON ANTHIRHYTHMIC EFFECTS OF BETA-BLOCKERS. Rossi P, Araldi D, Cernigliaro C, Daulerio M, Carcano G *Ital Cardiol* 6: 620-7, 1976 (Eng) DL/77FEB126

CENTRALLY MEDIATED HYPOCHOLESTEROLAEMIC RESPONSE OF INSULIN IN DOGS. Barthwal KC, Singh KN, Bapat V, Bapat SK *Indian J Physiol Pharmacol* 20: 136-40, Jul-Sep 76 (Eng) DL/77FEB150

RECURRENT DIABETIC KETOACIDOSIS: COMPARISON OF THERAPY WITH LOW DOSE AND HIGH DOSE INSULIN. Guerra SM *J Tenn Med Assoc* 69: 781-4, Nov 76 (Eng) DL/77FEB233

[ORAL THERAPY OF DIABETES MELLITUS BY COMBINATION OF HYPOGLYCEMIC AGENTS] Grujic M, Perinovic M, Rizvanbegovic B *Med Arh* 30: 167-71, May-Jun 76 (Scr) DL/77FEB238

1.F.9.3.2 INSULIN, THERAPEUTIC USE

DIET AND THE DIABETIC [EDITORIAL]. Anonymous *Br Med J* 2: 780, 2 Oct 76 (Eng) DL/77FEB26

THE INFLUENCE OF INSULIN ON THE PROPORTION OF NEUTRAL SUGARS IN SEROMUCOID OF DIABETIC PATIENTS.

Guzdek A, Ciba T, Sarnecka-Keller M *Clin Chim Acta* 72: 401-4, 1 Nov 76 (Eng) DL/77FEB44

TREATMENT OF DIABETES MELLITUS. Colwell JA *Compr Ther* 2: 16-21, Nov 76 (Eng) DL/77FEB48

THE EVOLVING PICTURE OF DIABETES. Ellenberg M *Compr Ther* 2: 9-15, Nov 76 (Eng) DL/77FEB55

NEW INSULIN REGIMENS FOR SEVERE DIABETIC KETOSIS. Anonymous *Drug Ther Bull* 14: 77-9, 24 Sep 76 (Eng) DL/77FEB63

DIABETES MELLITUS AND OSTEOPOROSIS. Forgacs S, Rosinger A, Vertes L *Endokrinologie* 67: 343-50, 1976 (Eng) DL/77FEB69

[CLINICAL UNSPECIFICITY AND METABOLIC SPECIFICITY OF THE POLARIZING SOLUTION (AUTHORS TRANSL.)] Sodi-Pallares D *Folia Clin Int (Barc)* 26: 7-13, Jan 76 (Spa) [83] DL/77FEB81

[DIABETES MELLITUS UNDER 30 YEARS OF AGE. RESULTS OF 18 YEARS EXPERIENCE WITH ORAL TREATMENT (AUTHORS TRANSL.)] Mirozou J, Cartry E *Diabete Metab* 1: 113-8, Jun 75 (Fre) DL/77FEB92

RENAL WASTAGE OF INSULIN IN CHILDREN WITH DIABETES MELLITUS. Malone JJ, Root AW *Diabetes* 25: 989-93, Oct 76 (Eng) DL/77FEB109

EFFECT OF SOMATOSTATIN ON METABOLIC AND HORMONAL CHANGES INDUCED BY NICOTINIC ACID IN INSULIN-DEPENDENT DIABETICS. Luyckx AS, Lefebvre PJ *Diabetologia* 12: 447-53, Oct 76 (Eng) DL/77FEB113

HUMAN C-PEPTIDE IMMUNOREACTIVITY (CPR) IN BLOOD AND URINE - EVALUATION OF A RADIOIMMUNOASSAY METHOD AND ITS CLINICAL APPLICATIONS. Kuzuya T, Saito T, Yoshida S, Matsuda A *Diabetologia* 12: 511-8, Oct 76 (Eng) DL/77FEB120

INFLUENCE OF POLARIZING INFUSIONS ON ANTHIRHYTHMIC EFFECTS OF BETA-BLOCKERS. Rossi P, Araldi D, Cernigliaro C, Daulerio M, Carcano G *Ital Cardiol* 6: 620-7, 1976 (Eng) DL/77FEB126

EXOCRINE PANCREATIC FUNCTION IN JUVENILE-ONSET DIABETES MELLITUS. Frier BM, Saunders JH, Wormsley KG, Bouchier IA *Gut* 17: 685-91, Sep 76 (Eng) DL/77FEB133

RECURRENT DIABETIC KETOACIDOSIS: COMPARISON OF THERAPY WITH LOW DOSE AND HIGH DOSE INSULIN. Guerra SM *J Tenn Med Assoc* 69: 781-4, Nov 76 (Eng) DL/77FEB233

[ORAL THERAPY OF DIABETES MELLITUS BY COMBINATION OF HYPOGLYCEMIC AGENTS] Grujic M, Perinovic M, Rizvanbegovic B *Med Arh* 30: 167-71, May-Jun 76 (Scr) DL/77FEB238

DIABETES IN THE ELDERLY PATIENT. Shagan BP *Med Clin North Am* 60: 1191-208, 1976 (Eng) [20] DL/77FEB240

[EXPERIENCES WITH MONOCOMPONENT (MC) INSULIN IN THE TREATMENT OF JUVENILE DIABETES] Aronson S, Engleson G *Lakartidningen* 73: 3982-4, 10 Nov 76 (Swe) DL/77FEB243

[TOTAL PANCREATECTOMY [EDITORIAL]] Trede M *Langenbecks Arch Chir* 340: 227-30, 23 Apr 76 (Ger) DL/77FEB254

TWO MINUTES WITH DIABETES. Whitehouse FW *Med Times* 104: 121, 127, Oct 76 (Eng) DL/77FEB256

INSULIN, GLUCAGON, AND THE CONTROL OF HEPATIC STRUCTURE, FUNCTION, AND CAPACITY FOR REGENERATION. Starzl TE, Porter KA, Putnam CW *Metabolism* 25: 1429-34, Nov 76 (Eng) DL/77FEB290

DIABETIC POLYNEUROPATHY: THE IMPORTANCE OF INSULIN DEFICIENCY, HYPERGLYCEMIA AND ALTERATIONS IN MYOINOSITOL METABOLISM IN ITS PATHOGENESIS. Winegrad AI, Greene DA *N Engl J Med* 295: 1416-21, 16 Dec 76 (Eng) DL/77FEB326

[TREATMENT OF DIABETIC KETO-ACIDOSIS THROUGH CONTINUOUS INSULIN INFUSION] Mirozou J, Mion C, Monnier L, Beraud JJ, Selam JL *Nouv Presse Med* 5: 2444-6, 6 Nov 76 (Fre) DL/77FEB342

[INSULIN-DEPENDENT DIABETES DURING THE THIRD LIFE-PERIOD] Hoet JJ *Probl Actuels Endocrinol Nutr serie* 17: 185-91, 1973 (Fre) DL/77FEB356

[SIGNIFICANCE OF BLOOD SUGAR NORMALIZATION IN THE PREVENTION OF VASCULAR COMPLICATIONS IN DIABETES MELLITUS] Tchobroutsky G, Slama G *Rev Prat* 26: 3159-71, 11 Oct 76 (Fre) [17] DL/77FEB387

[HYPOGLYCEMIC MEDICATIONS AND VASCULAR COMPLICATIONS OF DIABETES MELLITUS. CURRENT CONTROVERSY] Lubetzki J *Rev Prat* 26: 3173-83, 11 Oct 76 (Fre) DL/77FEB388

[BETA RECEPTOR BLOCKING AGENTS, INSULIN AND HYPOGLYCEMIA] Froland A *Ugeskr Laeger* 138: 2970, 15 Nov 76 (Dan) DL/77FEB420

SPECIAL PROBLEMS IN DIABETIC RENAL TRANSPLANTATION. Simmons RL, Payne WD, Sutherland DE, Howard RJ, Goetz FC, Barbosa J, Kjellstrand CM, Najarian JS *Urol Clin North Am* 3: 691-9, Oct 76 (Eng) DL/77FEB424

INSULIN TREATMENT OF GESTATIONAL DIABETICS. Drazancic A, Kuvacic I *Acta Med Jugosl* 30: 341-53, 1976 (Eng) DL/77FEB459

USE OF SULFATED INSULIN IN INSULIN RESISTANCE [LETTER]. Bartle WR *Am J Hosp Pharm* 33: 874-9, Sep 76 (Eng) DL/77FEB466

INTENSIVE CARE OF THE PREGNANT DIABETIC. Gugliucci CL, O'Sullivan MJ, Opperman W, Gordon M, Stone ML *Am J Obstet Gynecol* 125: 435-41, 15 JUN 76 (Eng) DL/77FEB469

1.F.9.4 DIABETES, ANTIDIABETICS AND THERAPY

1.F.9.4.1 ANTIDIABETICS

1.F.9.4.2 TOLBUTAMIDE

PHARMACOKINETIC ANALYSIS OF THE INTERACTION BETWEEN DICOUAMAROL AND TOLBUTAMIDE IN MAN. Jahnchen E, Meinertz T, Gilfrich HJ, Groth U *Eur J Clin Pharmacol* 10: 349-56, 30 Sep 76 (Eng) DL/77FEB74

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL.)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77FEB83

[PROPORTION OF LOW INSULIN RESPONDERS TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS]

1.F DIABETES

(AUTHORS TRANSL.) Vague P, Ramahandridona G, Vague J *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77FEB87

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerasi E *Diabete Metab* 1: 51-6, Mar 75 (Eng) DL/77FEB88

THE INHIBITION OF INSULIN SECRETION FROM THE PERFUSED RAT PANCREAS AFTER THYROXINE TREATMENT. Lenz S, Joost HG, Hasselblatt A *Diabetologia* 12: 495-500, Oct 76 (Eng) DL/77FEB118

ALTERATION OF DRUG METABOLISM IN GILBERTS SYNDROME. Carulli N, Ponz de Leon M, Mauro E, Manenti F, Ferrari A *Gut* 17: 581-7, Aug 76 (Eng) DL/77FEB132

EXPERIMENTAL EVALUATION OF THREE SINGLE-PARTICLE DISSOLUTION MODELS. Pedersen PV, Brown KF *J Pharm Sci* 65: 1442-7, OCT 76 (Eng) DL/77FEB208

HIGH-PRESSURE LIQUID CHROMATOGRAPHIC ANALYSIS OF TOLBUTAMIDE IN SERUM. Weber DJ *J Pharm Sci* 65: 1502-5, OCT 76 (Eng) DL/77FEB209

DIABETES IN THE ELDERLY PATIENT. Shagan BP *Med Clin North Am* 60: 1191-208, 1976 (Eng) [20] DL/77FEB240

INTRAISLET NEGATIVE INSULIN-GLUCAGON FEEDBACK. Samols E, Harrison J *Metabolism* 25: 1443-7, Nov 76 (Eng) DL/77FEB293

INSULIN SECRETION IN MIGRAINE: INFLUENCE ON THE BLOOD LEVELS OF TRYPTOPHAN. Poloni M, Nappi G, Bono G, Roggi C, Arpesella M, Virgilio P *Monogr Neural Sci* 3: 67-70, 1976 (Eng) DL/77FEB322

[MODIFICATION OF INSULIN-SECRETION, INDUCED BY GLUCOSE, OF THE ISOLATED PERFUSED RAT PANCREAS USING TOLBUTAMIDE, GLUCOSAMINE, DIAZOXIDE, GLUCAGON AND ENDOGENOUS INSULIN] Bierwolf B, Blech W *Acta Biol Med Ger* 35: 583-95, 1976 (Ger) DL/77FEB450

1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES

[DRUG-INDUCED PANMYELOPATHIES] Heimpe H, Kern P *Blut* 33: 1-10, Jul 76 (Ger) [35] DL/77FEB16

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL.)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77FEB83

DOMINANT INHERITANCE DIABETES MELLITUS. Tulloch JA, Adamson DG *J R Coll Physicians Lond* 11: 86-90, Oct 76 (Eng) DL/77FEB214

HUMAN C-PEPTIDE. PART II: CLINICAL STUDIES. Beischer W, Heinze E, Keller L, Raptis S, Kerner W, Pfeiffer EF *Klin Wochenschr* 54: 717-25, 1 Aug 76 (Eng) DL/77FEB228

DIABETES IN THE ELDERLY PATIENT. Shagan BP *Med Clin North Am* 60: 1191-208, 1976 (Eng) [20] DL/77FEB240

[CLINICAL EXPERIENCE WITH THE NEW HUNGARIAN GLIBENCLAMIDE PRODUCT (GILEMAL)] Bela P, Miklos G *Orv Hetil* 117: 2792-4, 14 Nov 76 (Hun) DL/77FEB335

[RESULTS OF TREATMENT OF DIABETES IN SIPIDUS WITH PFIZERS DIABINESE (AUTHORS TRANSL.)] Chęcinska Z, Galazka A, Gruszka S, Stepien M, Milewicz A, Szklarz E *Przegl Lek* 33: 697-9, 1976 (Pol) DL/77FEB370

INHIBITION OF THE GLUCOSE INDUCED INSULIN RELEASE BY SOMATOSTATIN IN THE ISOLATED PERFUSED RAT PANCREAS. ACTION OF CYCLIC AMP, GLUCAGON AND GLIBENCLAMIDE. Osorio J, Campillo JE, de los Arcos JG, Pages I, Rodriguez E, Marasco M, Melani F *Rev Esp Fisiol* 32: 211-6, Sep 76 (Eng) DL/77FEB372

[INTERACTIONS BETWEEN DICLOFENAC AND GLIBENCLAMIDE] Chlud K *Z Rheumatol* 35: 377-82, Sep-Oct 76 (Ger) DL/77FEB444

1.F.9.4.4 PHENFORMIN

EFFECT OF ETHYLOESTRENOL ON FIBRINOLYSIS IN THE VESSEL WALL. Hedner U, Nilsson IM, Isacson S *Br Med J* 2: 729-31, 25 Sep 76 (Eng) DL/77FEB24

CAN PHENFORMIN-INDUCED LACTIC ACIDOSIS BE PREVENTED Gale EA, Tattersall RB *Br Med J* 2: 972-5, 23 Oct 76 (Eng) DL/77FEB32

INTESTINAL ABSORPTION CHARACTERISTICS OF BUFORMIN AND PHENFORMIN IN RATS. Kojima S, Tanaka R, Hamada C *Chem Pharm Bull (Tokyo)* 24: 1555-60, Jul 76 (Eng) DL/77FEB42

EFFECT OF PHENFORMIN AND ETHYLOESTRENOL ON BLOOD FIBRINOLYTIC ACTIVITY ON RABBITS MAINTAINED ON HIGH CHOLESTEROL DIET. Sharma KK, Chowdhury NK, Sharma AL *Indian J Med Res* 64: 915-22, Jun 76 (Eng) DL/77FEB149

DIABETES IN THE ELDERLY PATIENT. Shagan BP *Med Clin North Am* 60: 1191-208, 1976 (Eng) [20] DL/77FEB240

MALIGNANT ATROPHIC PAPULOSIS OF DEGS. REPORT OF A PATIENT WHO FAILED TO RESPOND TO FIBRINOLYTIC THERAPY. Howdens SM, Hodge SJ, Herndon JH, Freeman RG *Arch Dermatol* 112: 1582-8, Nov 76 (Eng) [61] DL/77FEB490

1.F.9.4.5 OTHER BIGUANIDES

INTESTINAL ABSORPTION CHARACTERISTICS OF BUFORMIN AND PHENFORMIN IN RATS. Kojima S, Tanaka R, Hamada C *Chem Pharm Bull (Tokyo)* 24: 1555-60, Jul 76 (Eng) DL/77FEB42

INFLUENCE OF METFORMIN ON ARGININE-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ *Diabete Metab* 1: 23-8, Mar 75 (Eng) DL/77FEB84

[DIABETES MELLITUS UNDER 30 YEARS OF AGE. RESULTS OF 18 YEARS EXPERIENCE WITH ORAL TREATMENT (AUTHORS TRANSL.)] Mirouze J, Cartry E *Diabete Metab* 1: 113-8, Jun 75 (Fre) DL/77FEB92

[DRUG-INDUCED HYPOGLYCEMIA IN DIABETIC PATIENTS] Gay G, Debyr G *Nouv Presse Med* 5: 2156-8, 9 Oct 76 (Fre) DL/77FEB344

CLINICAL USE OF ORAL HYPOGLYCEMIC AGENTS. Hagg SA *Am J Hosp Pharm* 33: 943-7, Sep 76 (Eng) [60] DL/77FEB467

SOME NEW ASPECTS ON THE INTERACTION OF HYPOGLYCEMIA-PRODUCING BIGUANIDES WITH BIOLOGICAL MEMBRANES. Schafer G *Biochem Pharmacol* 25: 2015-24, 15 Sep 76 (Eng) DL/77FEB512

INFLUENCE OF ELECTROSTATIC SURFACE POTENTIAL ON MITOCHONDRIAL ADP-PHOSPHORYLATION. Schafer G, Rowohl-Quisthoudt G *FEBs Lett* 59: 48-51, 1 Nov 75 (Eng) *DL/77FEB556

1.F.9.5 DIABETES DRUG THERAPY

DIET AND THE DIABETIC [EDITORIAL]. Anonymous *Br Med J* 2: 780, 2 Oct 76 (Eng) DL/77FEB26

CAN PHENFORMIN-INDUCED LACTIC ACIDOSIS BE PREVENTED Gale EA, Tattersall RB *Br Med J* 2: 972-5, 23 Oct 76 (Eng) DL/77FEB32

THE INFLUENCE OF INSULIN ON THE PROPORTION OF NEUTRAL SUGARS IN SEROMUCOID OF DIABETIC PATIENTS. Guzek A, Ciba T, Sarnecka-Keller M *Clin Chim Acta* 72: 401-4, 1 Nov 76 (Eng) DL/77FEB44

TREATMENT OF DIABETES MELLITUS. Colwell JA *Compr Ther* 2: 16-21, Nov 76 (Eng) DL/77FEB48

DIABETES MELLITUS AND LEFT VENTRICULAR FUNCTION. Ahmed SS, Regan TJ *Compr Ther* 2: 51-7, Nov 76 (Eng) DL/77FEB53

DIABETES MELLITUS AND OSTEOPOROSIS. Forgacs S, Rosinger A, Vertes L *Endokrinologie* 67: 343-50, 1976 (Eng) DL/77FEB69

INSULIN RESISTANT DIABETES MELLITUS WITHOUT THE PRESENCE OF INSULIN ANTIBODIES. A CASE REPORT. Pav J, Sramkova J, Matys Z *Endokrinologie* 67: 373-6, 1976 (Eng) DL/77FEB71

INFLUENCE OF METFORMIN ON ARGinine-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ *Diabete Metab* 1: 23-8, Mar 75 (Eng) DL/77FEB84

[DIABETES MELLITUS UNDER 30 YEARS OF AGE. RESULTS OF 18 YEARS EXPERIENCE WITH ORAL TREATMENT (AUTHORS TRANSL.)] Mirouze J, Cartry E *Diabete Metab* 1: 113-8, Jun 75 (Fre) DL/77FEB92

EFFECTS OF ACUTE INSULIN WITHDRAWAL AND ADMINISTRATION ON PLASMA GLUCAGON RESPONSES TO INTRAVENOUS ARGinine IN INSULIN-DEPENDENT DIABETIC SUBJECTS. Gerich JE, Lorenzi M, Saklikian E, Bohannon NV, Schneider V, Karam JH, Forsham PH *Diabetes* 25: 955-60, Oct 76 (Eng) DL/77FEB103

RENAL WASTAGE OF INSULIN IN CHILDREN WITH DIABETES MELLITUS. Malone JJ, Root AW *Diabetes* 25: 989-93, Oct 76 (Eng) DL/77FEB109

EFFECT OF SOMATOSTATIN ON METABOLIC AND HORMONAL CHANGES INDUCED BY NICOTINIC ACID IN INSULIN-DEPENDENT DIABETICS. Luyckx AS, Lefebvre PJ *Diabetologia* 12: 447-53, Oct 76 (Eng) DL/77FEB113

HUMAN C-PEPTIDE IMMUNOREACTIVITY (CPR) IN BLOOD AND URINE - EVALUATION OF A RADIOIMMUNOASSAY METHOD AND ITS CLINICAL APPLICATIONS. Kuzuya T, Saito T, Yoshida S, Matsuda A *Diabetologia* 12: 511-8, Oct 76 (Eng) DL/77FEB120

EXOCRINE PANCREATIC FUNCTION IN JUVENILE-ONSET DIABETES MELLITUS. Frier BM, Saunders JH, Wormsley KG, Bouchier IA *Gut* 17: 685-91, Sep 76 (Eng) DL/77FEB133

DOMINANT INHERITANCE DIABETES MELLITUS. Tulloch JA, Adamson DG *J R Coll Physicians Lond* 11: 86-90, Oct 76 (Eng) DL/77FEB214

1.F DIABETES

[ORAL THERAPY OF DIABETES MELLITUS BY COMBINATION OF HYPOGLYCEMIC AGENTS] Grujic M, Perinovic M, Rizvanbegovic B *Med Arh* 30: 167-71, May-Jun 76 (Scr) DL/77FEB238

DIABETES IN THE ELDERLY PATIENT. Shagan BP *Med Clin North Am* 60: 1191-208, 1976 (Eng) [20] DL/77FEB240

[EXPERIENCES WITH MONOCOMPONENT (MC) INSULIN IN THE TREATMENT OF JUVENILE DIABETES] Aronson S, Engleson G *Lakartidningen* 73: 3982-4, 10 Nov 76 (Swe) DL/77FEB243

[TOTAL PANCREATCTOMY (EDITORIAL)] Trede M *Langenbecks Arch Chir* 340: 227-30, 23 Apr 76 (Ger) DL/77FEB254

ALPHA CELL FUNCTION IN DIABETES MELLITUS. Gerich JE *Metabolism* 25: 1513-6, Nov 76 (Eng) DL/77FEB312

[CLINICAL EXPERIENCE WITH THE NEW HUNGARIAN GLIBENCLAMIDE PRODUCT (GILEMAL)] Bela P, Miklos G *Orv Hetil* 117: 2792-4, 14 Nov 76 (Hun) DL/77FEB335

[DRUG-INDUCED HYPOGLYCEMIA IN DIABETIC PATIENTS] Gay G, Debyr G *Nouv Presse Med* 5: 2156-8, 9 Oct 76 (Fre) DL/77FEB344

[INSULIN-DEPENDENT DIABETES DURING THE THIRD LIFE-PERIOD] Hoet JJ *Probl Actuels Endocrinol Nutr serie* 17: 185-91, 1973 (Fre) DL/77FEB356

[THERAPEUTIC REQUIREMENTS OF NON-INSULIN DEPENDENT DIABETES AND ITS VARIANTS] Dorf G, Bour H *Sem Hop Ther* 52: 121-3, Feb 76 (Fre) DL/77FEB400

[INSULIN HYPOGLYCEMIA DURING TREATMENT OF DIABETES MELLITUS IN CHILDREN] Jokanovic R, Nikezic M *Srp Arh Celok Lek* 104: 49-56, Jan 76 (Scr) DL/77FEB404

[BETA RECEPTOR BLOCKING AGENTS, INSULIN AND HYPOGLYCEMIA] Froland A *Ugeskr Laeger* 138: 2970, 15 Nov 76 (Dan) DL/77FEB420

SPECIAL PROBLEMS IN DIABETIC RENAL TRANSPLANTATION. Simmons RL, Payne WD, Sutherland DE, Howard RJ, Goetz FC, Barbosa J, Kjellstrand CM, Najarian JS *Urol Clin North Am* 3: 691-9, Oct 76 (Eng) DL/77FEB424

[CHANGE OF THE CONTENT OF NUCLEIC ACIDS IN THE BLOOD OF PATIENTS WITH DIABETES MELLITUS DEPENDING ON THE SEVERITY OF THE DISEASE] Franchuk MM *Vrach Delo* 76-8, Sep 76 (Rus) DL/77FEB428

[EVALUATION OF GLIPIZIDE] Nowotna-Walcowa R, Szajewski JM, Walc J *Wiad Lek* 29: 1607-10, 15 Sep 76 (Pol) DL/77FEB431

[INTERACTIONS BETWEEN DICLOFENAC AND GLIBENCLAMIDE] Chlud K *Z Rheumatol* 35: 377-82, Sep-Oct 76 (Ger) DL/77FEB444

USE OF SULFATED INSULIN IN INSULIN RESISTANCE [LETTER]. Bartle WR *Am J Hosp Pharm* 33: 874-9, Sep 76 (Eng) DL/77FEB466

CLINICAL USE OF ORAL HYPOGLYCEMIC AGENTS. Haeg SA *Am J Hosp Pharm* 33: 943-7, Sep 76 (Eng) [60] DL/77FEB467

[PHARMACOKINETIC OF GLIPENTIDE (UR-661) BY IV. ADMINISTRATION ON HEALTHY AND DIABETIC VOLUNTEERS (AUTHORS TRANSL)] Rimbau Barreras V, Uriach Marsal J, Pou Torello JM *Arch Farmacol Toxicol* 2: 115-22, Aug 76 (Spa) DL/77FEB491

1.F.9.6 DIABETES THERAPY

TREATMENT OF ASYMPTOMATIC DIABETES MELLITUS. Reaven GM *Compr Ther* 2: 22-8, Nov 76 (Eng) DL/77FEB49

THE MANAGEMENT OF DIABETES IN THE ELDERLY. Walsh CH *Compr Ther* 2: 38-46, Nov 76 (Eng) DL/77FEB51

THE EVOLVING PICTURE OF DIABETES. Ellenberg M *Compr Ther* 2: 9-15, Nov 76 (Eng) DL/77FEB55

[XENOTRANSPLANTATION OF FETAL ENDOCRINE PANCREATIC TISSUE. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 690-9, 1976 (Fre) DL/77FEB61

[MUSCULAR WORK IN THE THERAPY OF DIABETES MELLITUS] Berger M *Fortschr Med* 94: 1553-7, 7 Oct 76 (Ger) DL/77FEB136

THE DIABETIC FOOT. Levin ME *J Am Podiatry Assoc* 66: 825-39, Nov 76 (Eng) DL/77FEB174

DISORDERS OF CARBOHYDRATE METABOLISM IN INFANCY. Cornblath M, Schwartz R *Major Probl Clin Pediatr* 3: 1-483, 1976 (Eng) DL/77FEB235

THERAPY TO CONTROL CORONARY ATHEROSCLEROSIS AND ITS COMPLICATIONS. Gorlin R *Major Probl Intern Med* 11: 281-92, 1976 (Eng) DL/77FEB237

DIABETES IN THE ELDERLY PATIENT. Shagan BP *Med Clin North Am* 60: 1191-208, 1976 (Eng) [20] DL/77FEB240

[THERAPEUTIC REQUIREMENTS OF NON-INSULIN DEPENDENT DIABETES AND ITS VARIANTS] Dorf G, Bour H *Sem Hop Ther* 52: 121-3, Feb 76 (Fre) DL/77FEB400

PRINCIPLES OF MANAGEMENT OF MATURITY ONSET DIABETES. Taft P *Aust Fam Physician* 5: 656-8, Jun 76 (Eng) DL/77FEB495

1.F.9.7 DIABETES, RADIOGRAPHY

COMPARISON OF NON-SCREEN TECHNIQUES (MEDICAL VS. INDUSTRIAL FILM) FOR FINE-DETAIL SKELETAL RADIOGRAPHY. Genant HK, Doi K, Mall JC *Invest Radiol* 11: 486-500, SEP-OCT 76 (Eng) DL/77FEB151

1.F.9.8 DIABETES, SURGERY

PANCREATIC ISLET CELL TRANSPLANTATION AND DIABETES THERAPY. Monaco AP, Codish SD *Compr Ther* 2: 29-37, Nov 76 (Eng) DL/77FEB50

THE EVOLVING PICTURE OF DIABETES. Ellenberg M *Compr Ther* 2: 9-15, Nov 76 (Eng) DL/77FEB55

1.F.9.9 DIABETES, MORTALITY

CANCER MORTALITY AND SACCHARIN CONSUMPTION IN DIABETICS. Armstrong B, Lea AJ, Adelstein AM, Donovan JW, White GC, Ruttle S *Br J Prev Soc Med* 30: 151-7, Sep 76 (Eng) DL/77FEB19

[ANNUAL MORTALITY RHYTHM OF DIABETES MELLITUS (AUTHORS TRANSL)] Valsik JA, Stukovsky R *Bratisl Lek Listy* 65: 494-501, May 76 (Slo) DL/77FEB34

THE ROLE OF NUTRITION IN HUMAN AGING. PP. 29-45. Caster WO In: *Rockstein M, Sussman ML, ed. Nutrition, longevity, and aging. New York, Academic Press, 1976. WT 104 N977 1976. (Eng) [71] DL/77FEB192*

THE ROLE OF NUTRITION TO DIABETES IN RELATION TO AGE. PP. 229-52. Gerritsen GC In: *Rockstein M, Sussman ML, ed. Nutrition, lon-*

gevity, and aging. New York, Academic Press, 1976. WT 104 N977 1976. (Eng) [84] DL/77FEB193

1.F.10 DIABETES, EXPERIMENTAL

1.F.10.1 DIABETES, CHEMICALLY INDUCED

IDENTIFICATION AND CHARACTERIZATION OF THE INSULIN RECEPTOR IN THE R3230AC MAMMARY ADENOCARCINOMA OF THE RAT. Harmon JT, Hilf R *Cancer Res* 36: 3993-4000, Nov 76 (Eng) DL/77FEB37

HYPERINSULINEMIA AND HYPERGLUCAGONEMIA FOLLOWING PANCREATIC ISLET TRANSPLANTATION IN DIABETIC RATS. Weber CJ, Hardy MA, Lerner RL, Felig P, Reemtsma K *Diabetes* 25: 944-8, Oct 76 (Eng) DL/77FEB101

THE INFLUENCE OF STREPTOZOTOCIN DIABETES ON ADRENAL FUNCTION IN MALE RATS. De Nicola AF, Fridman O, Del Castillo EJ, Foglia VG *Horm Metab Res* 8: 388-92, Sep 76 (Eng) DL/77FEB145

DECAY OF SUCCINATE DEHYDROGENASE ACTIVITY IN RAT SKELETAL MUSCLE FOLLOWING STREPTOZOTOCIN INJECTION. Armstrong RB, Iannuzzo CD *Horm Metab Res* 8: 392-4, Sep 76 (Eng) DL/77FEB146

ISLET TRANSPLANTATION IN EXPERIMENTAL DIABETES OF THE RAT. V. REGRESSION OF GLOMERULAR LESIONS IN DIABETIC RATS AFTER INTRAPORTAL TRANSPLANTATION OF ISOGENIC ISLETS. PRELIMINARY RESULTS. Federlin K, Bretzel RG, Schmidchen U *Horm Metab Res* 8: 404-6, Sep 76 (Eng) DL/77FEB148

[STERIOD DIABETES - VERY SIGNIFICANT COMPLICATION OF IMMUNOSUPPRESSION FOLLOWING THE KIDNEY TRANSPLANTATION] Boskovic S, Haracic M *Med Arh* 30: 195-7, May-Jun 76 (Scr) DL/77FEB239

THE MICROANATOMY OF THE ISLETS OF LANGERHANS. Orci L *Metabolism* 25: 1303-13, Nov 76 (Eng) [30] DL/77FEB262

REGULATION OF GLUCAGON SECRETION OF THE DIABETIC PANCREAS IN VITRO [PROCEEDINGS]. Matschinsky FM, Pagiara AS *Metabolism* 25: 1517, Nov 76 (Eng) DL/77FEB313

THE BIOLOGY OF GROWTH HORMONE. Kostyo JL, Reagan CR *Pharmacol Ther* [B] 2: 591-604, 1976 (Eng) [110] DL/77FEB362

EFFECTS OF DIABETES ON INTESTINAL MAGNESIUM ABSORPTION IN THE RAT. Miller DL, Schedl HP *Am J Physiol* 231: 1039-42, Oct 76 (Eng) DL/77FEB473

[THE INFLUENCE OF CORTISOL TREATMENT ON THE DEVELOPMENT OF DIABETIC CATARACTS IN RATS (AUTHORS TRANSL)] Koch HR, Hillenbink M, Liappis N *Albrecht von Graefes Arch Klin Ophthalmol* 200: 211-22, 1976 (Ger) DL/77FEB482

3-OXO ACID COENZYME A-TRANSFERASE IN NORMAL AND DIABETIC RAT MUSCLE. Fensclau A, Wallis K *Biochem J* 158: 509-12, 15 Aug 76 (Eng) DL/77FEB507

1.F.10.2 ALLOXAN DIABETES

SUPPRESSION OF FOOD INTAKE IN DIABETIC RATS BY VOLUNTARY CONSUMPTION AND INTRAHYPOTHALAMIC INJECTION OF GLUCOSE. Panksepp J, Meeker R *Physiol Behav* 16: 763-70, Jun 76 (Eng) DL/77FEB366

1.F.10.2.1 ALLOXAN DIABETES, BLOOD

EXTRAPANCREATIC GLUCAGON IN THE DOG. Vranic M, Engerman R, Doi K, Morita S, Yip CC *Metabolism* 25: 1469-73, Nov 76 (Eng) DL/77FEB302

EFFECTS OF HYPOPHYSECTOMY ON ALLOXAN-DIABETIC, ARTERIOSCLEROTIC, BREEDER VS. NON-ARTERIOSCLEROTIC, VIRGIN RATS. Wexler BC *Atherosclerosis* 25: 13-30, Oct 76 (Eng) DL/77FEB515

1.F.10.2.2 ALLOXAN DIABETES, DRUG THERAPY

DIABETIC POLYNEUROPATHY: THE IMPORTANCE OF INSULIN DEFICIENCY, HYPERGLYCEMIA AND ALTERATIONS IN MYOINOSITOL METABOLISM IN ITS PATHOGENESIS. Winegrad AI, Greene DA *N Engl J Med* 295: 1416-21, 16 Dec 76 (Eng) DL/77FEB326

1.F.10.2.3 ALLOXAN DIABETES, ENZYMOLOGY

[ANTAGONISM IN THE ACTION OF HYDROCORTISONE AND INSULIN IN VIVO ON ENZYMES OF PYRUVATE AND MALATE METABOLISM IN ADIPOSE TISSUE] Ilin VS, Vasileva LE, Tokhadze OG *Biokhimiia* 41: 1646-50, Sep 76 (Rus) DL/77FEB12

INSULIN STIMULATION OF HEART GLYCOGEN SYNTHASE D PHOSPHATASE (PROTEIN PHOSPHATASE). Nuttall FQ, Gannon MC, Corbett VA, Wheeler MP *J Biol Chem* 251: 6724-9, 10 Nov 76 (Eng) DL/77FEB160

1.F.10.2.4 ALLOXAN DIABETES, METABOLISM

VITAMIN B2 METABOLISM IN THE ISOLATED PERFUSED RAT LIVER. Okuyama S, Ito S, Nishino Y *Gastroenterol Jpn* 11: 5-10, 1976 (Eng) DL/77FEB130

1.F.10.2.5 ALLOXAN DIABETES, PATHOLOGY

1.F.10.2.6 ALLOXAN DIABETES, PHYSIOPATHOLOGY

GASTRIC GLUCAGON SECRETION. Blazquez E, Munoz-Barragan L, Patton GS, Dobbs R, Unger RH *Metabolism* 25: 1475-6, Nov 76 (Eng) DL/77FEB303

REGULATION OF GLUCAGON SECRETION OF THE DIABETIC PANCREAS IN VITRO [PROCEEDINGS]. Matschinsky FM, Pagliara AS *Metabolism* 25: 1517, Nov 76 (Eng) DL/77FEB13

1.F.11 DIABETES, VETERINARY

[PATHOGENESIS OF SPONTANEOUS DIABETES MELLITUS IN THE CAT. II. ACIDOPHILIC ADENOMA OF THE PITUITARY GLAND AND DIABETES MELLITUS IN 2 CASES] Gembarde C, Loppnow H *Berl Munch Tierarztl Wochenschr* 89: 336-40, 1 Sep 76 (Ger) DL/77FEB497

1.F.12 DIABETES, HISTORY

[LONG-TERM PROGNOSIS OF INFANTILE DIABETES (EDITORIAL)] Lestrade H, Besse J, Billaud L, Battistelli F, Tric F, Lestrade F *Nouv Presse Med* 6: 2297-8, 23 Oct 76 (Fre) DL/77FEB345

ARNOLD LAZAROW: 1916-1975. Cooperstein SJ *Anat Rec* 186: 247-9, Oct 76 (Eng) DL/77FEB486

2

2

2

2

2

(T

2

2

w

IN

ET

(R

2.

HI

HO

IC

SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS

2.A ENDOCRINE PANCREAS

2.A.1 ISLETS (SEE SEC. 1.A)

2.A.2 INSULIN (SEE SEC. 1.C)

2.A.3 GLUCAGON (SEE SEC. 1.D)

2.B ADRENAL GLANDS

[THE SIGNIFICANCE OF STRESS INTENSITY FOR THE EMOTIONAL AND VISCERAL REACTIVITY, ESPECIALLY FOR BLOOD PRESSURE REGULATION] Hecht K, Hai NV, Moritz V, Hecht T *Acta Biol Med Ger* 35: 23-33, 1976 (Ger) DL/77FEB448

2.B.1 ADRENAL CORTEX

2.B.2 ADRENAL CORTEX HORMONES

WIDESPREAD JUXTA-ARTICULAR BONE NECROSIS IN A TUNNELLER. Sewell JR, Jary C *Proc R Soc Med* 69: 706-7, Sep 76 (Eng) DL/77FEB361

INDUCTION OF GLYCOSURIA AND HYPERGLUCEMIA BY TOPICAL CORTICOSTEROID THERAPY. Gomez EC, Frost P *Arch Dermatol* 112: 1559-62, Nov 76 (Eng) DL/77FEB489

EFFECTS OF HYPOPHYSECTOMY ON ALLOXAN-DIABETIC, ARTERIOSCLEROTIC, BREEDER VS. NON-ARTERIOSCLEROTIC, VIRGIN RATS. Wexler BC *Atherosclerosis* 25: 13-30, Oct 76 (Eng) DL/77FEB515

[ROLE OF DIFFERENT REGIONS OF THE HYPOTHALAMUS IN REGULATING THE HYPOPHYSAL-ADRENAL CORTEX SYSTEM IN RATS] Kononova LK *Probl Endokrinol (Mosk)* 22: 58-62, 1976 (Rus) *DL/77FEB622

2.B.2.1 GLUCOCORTICOIDS

HUMAN GROWTH HORMONE CHANGES WITH AGE. PP. 261-70. Bazzarre TL, Johanson AJ, Huseman CA, Varma MM, Blizzard RM *Ino Picelle A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB182*

HORMONAL RESPONSES AND THEIR EFFECT ON METABOLISM. Wilmore DW *Surg Clin North Am* 56: 999-1018, Oct 76 (Eng) DL/77FEB407

[GROWTH HORMONE DETERMINATIONS IN CHILDREN WITH RHEUMATOID ARTHRITIS AND STILL'S SYNDROME (PROCEEDINGS)] Butenandt O, Eder R, Clados-Kelch A *Z Rheumatol* 35 suppl 4: suppl 47-53, 1976 (Ger) DL/77FEB445

2.B.2.1.1 CORTISONE

2.B.2.1.2 HYDROCORTISONE

[ANTAGONISM IN THE ACTION OF HYDROCORTISONE AND INSULIN IN VIVO ON ENZYMES OF PYRUVATE AND MALATE METABOLISM IN ADIPOSE TISSUE] Ilin VS, Vasileva LE, Tokhadze OG *Biochimia* 41: 1646-50, Sep 76 (Rus) DL/77FEB12

EFFECT OF SOMATOSTATIN ON METABOLIC AND HORMONAL CHANGES INDUCED BY NICOTINIC ACID IN INSULIN-DEPENDENT DIABETICS. Luyckx AS, Lefebvre PJ *Diabetologia* 12: 447-53, Oct 76 (Eng) DL/77FEB113

A STUDY OF PITUITARY FUNCTION IN PATIENTS WITH IDIOPATHIC HEMOCHROMATOSIS. Walsh CH, Wright AD, Williams JW, Holder G *J Clin Endocrinol Metab* 43: 866-72, Oct 76 (Eng) DL/77FEB169

PLASMA SOMATOMEDIN. CLINICAL OBSERVATIONS. PP. 271-85. Van den Brande JL *Ino Picelle A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) [81] DL/77FEB186*

WEIGHT LOSS IN PATIENTS TREATED LONG-TERM WITH LEVODOPA. METABOLIC ASPECTS. Vardi J, Oberman Z, Rabey I, Streifler M, Ayalon D, Herzberg M *J Neurol Sci* 30: 33-40, Nov 76 (Eng) DL/77FEB201

ADRENAL AND PANCREATIC ENDOCRINE RESPONSES TO HYPOXIA IN THE CONSCIOUS CALF. Bloom SR, Edwards AV, Hardy RN, Silver M *J Physiol (Lond)* 261: 271-83, Oct 76 (Eng) DL/77FEB212

DISORDERS OF CARBOHYDRATE METABOLISM IN INFANCY. Cornblath M, Schwartz R *Major Probl Clin Pediatr* 3: 1-483, 1976 (Eng) DL/77FEB235

[HYPOGLYCAEMIA (AUTHORS TRANSL)] Uebersax R, Jeannonod D, Meyrat CA *Praxis* 65: 504-9, 27 Apr 76 (Fre) DL/77FEB354

NEUROENDOCRINE STUDIES OF DEPRESSIVE ILLNESS. Sachar EJ, Roffwarg HP, Gruen PH, Altman N, Sassin J *Pharmacopsychiatr Neuropsychopharmacol* 9: 11-7, Jan 76 (Eng) DL/77FEB363

[RELATIONSHIP BETWEEN HORMONE CONCENTRATION IN PERIPHERAL BLOOD IN HYPERTENSION, ARTERIOSCLEROSIS AND OBESITY] Kokina LP, Lyskova MN, Tkacheva GA, Gabuniia RI, Syzgantseva LM *Ter Arkh* 48: 81-4, 1976 (Rus) DL/77FEB410

[ANALYSIS OF BREAST CELL DIFFERENTIATION IN TISSUE CULTURE UNDER THE INFLUENCE OF HORMONES] Kalantar IL, Khrustaleva GI, Nechipurenko LV, Medvedev IK *Tsitologiya* 18: 1014-9, Aug 76 (Rus) DL/77FEB416

PHYSICAL ACTIVITY AND HORMONES. Adlercreutz H, Harkonen M, Kuoppasalmi K, Kosunen K, Naveri H, Rehenen S *Adv Cardiol* 18: 144-57, 1976 (Eng) DL/77FEB461

[THE INFLUENCE OF CORTISOL TREATMENT ON THE DEVELOPMENT OF DIABETIC CATARACTS IN RATS (AUTHORS

TRANSL)] Koch HR, Hillenbink M, Liappis N *Albrecht von Graefes Arch Klin Ophthalmol* 200: 211-22, 1976 (Ger) DL/77FEB482

EFFECTS OF HORMONES ON PROTEIN AND AMINO ACID METABOLISM IN MAMMARY-GLAND EXPLANTS OF MICE. Anderson LD, Rillema JA *Biochem J* 158: 355-9, 15 Aug 76 (Eng) DL/77FEB506

EFFECTS OF GROWTH HORMONE RELEASE-INHIBITING HORMONE AND BROMOCRYPTINE (CB 154) IN STATES OF ABNORMAL PITUITARY-ADRENAL FUNCTION. Benker G, Hackenberg K, Hamburger B, Reinwein D *Clin Endocrinol (Oxf)* 5: 187-90, Mar 76 (Eng) *DL/77FEB542

[FUNCTIONAL ORGANIZATION OF THE HYPOTHALAMUS IN REGULATION OF THE HYPOPHYSAL-ADRENOCORTICAL SYSTEM] Filaretov AA, Vasilevskaia LV *Dokl Akad Nauk SSSR* 227: 1018-20, 1976 (Rus) *DL/77FEB546

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL AND GROWTH HORMONE LEVELS IN YOUNG WEIGHT LIFTERS] Lukaszewska J, Biczowa B, Bobilewicz D, Wilk M, Obuchowicz-Fidelski B *Endokrynol Pol* 27: 149-57, Mar-Apr 76 (Pol) *DL/77FEB549

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL, TESTOSTERONE AND GROWTH HORMONE LEVELS IN WEIGHT LIFTERS] Skierska E, Ustupka J, Biczowa B, Lukaszewska J *Endokrynol Pol* 27: 159-65, Mar-Apr 76 (Pol) *DL/77FEB550

PARTICIPATION OF CATECHOLAMINES AND CORTICAL HORMONES IN THE MYOCARDIAL METABOLIC ADAPTATION TO MECHANICAL OVERLOAD OF THE HEART. Fizek A, Fizekova A *Recent Adv Stud Cardiac Struct Metab* 1: 814-27, 1972 (Eng) *DL/77FEB655

2.B.2.1.3 OTHER GLUCOCORTICOIDS

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltz C, Leclercq-Meyer V, Mialhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77FEB86

FOETAL RAT PANCREAS IN ORGAN CULTURE. EFFECT OF CORTICOSTERONE CONCENTRATIONS ON THE ACINAR AND ISLET CELL COMPONENTS. McEvoy RC, Hegre OD, Lazarow A *Differentiation* 6: 17-26, 16 Mar 76 (Eng) DL/77FEB125

THE INFLUENCE OF STREPTOZOTOCIN DIABETES ON ADRENAL FUNCTION IN MALE RATS. De Nicola AF, Fridman O, Del Castillo EJ, Foglia VG *Horm Metab Res* 8: 388-92, Sep 76 (Eng) DL/77FEB145

ADRENAL AND PANCREATIC ENDOCRINE RESPONSES TO HYPOXIA IN THE CONSCIOUS CALF. Bloom SR, Edwards AV, Hardy RN, Silver M *J Physiol (Lond)* 261: 271-83, Oct 76 (Eng) DL/77FEB212

HORMONAL STIMULATION OF DNA SYNTHESIS IN PRIMARY CULTURES OF ADULT RAT HEPATOCYTES. Richman RA, Claus TH, Pilks SJ, Friedman DL *Proc Natl Acad Sci USA* 73: 3589-93, Oct 76 (Eng) DL/77FEB360

2.A ENDOCRINE PANCREAS

PARTICIPATION OF CATECHOLAMINES AND CORTICAL HORMONES IN THE MYOCARDIAL METABOLIC ADAPTATION TO MECHANICAL OVERLOAD OF THE HEART. Fízel A, Fízelova A *Recent Adv Stud Cardiac Struct Metab* 1: 814-27, 1972 (Eng) *DL/77FEB655

2.B.2.2 MINERALOCORTICOIDS

THE ENDOCRINE SYSTEM IN PATIENTS WITH ACUTE RENAL INSUFFICIENCY. Kokot F, Kuska J *Kidney Int [Suppl]* 10: 826-31, Oct 76 (Eng) DL/77FEB223

CRITERIA FOR DIAGNOSIS OF ALDOSTERONE BIOSYNTHETIC DEFECTS [LETTER]. Rossler A, Ulick S *N Engl J Med* 295: 1383, 9 Dec 76 (Eng) DL/77FEB325

[RELATIONSHIP BETWEEN HORMONE CONCENTRATION IN PERIPHERAL BLOOD IN HYPERTENSION, ARTERIOSCLEROSIS AND OBESITY] Kokina LP, Lyskova MN, Tkacheva GA, Gabunia RI, Syzgantseva LM *Ter Arkh* 48: 81-4, 1976 (Rus) DL/77FEB410

PHYSICAL ACTIVITY AND HORMONES. Adlercreutz H, Harkonen M, Kuoppasalmi K, Kosunen K, Naveri H, Rehunen S *Adv Cardiol* 18: 144-57, 1976 (Eng) DL/77FEB461

2.B.3 ADRENAL MEDULLA

ADRENAL AND PANCREATIC ENDOCRINE RESPONSES TO HYPOXIA IN THE CONSCIOUS CALF. Bloom SR, Edwards AV, Hardy RN, Silver M *J Physiol (Lond)* 261: 271-83, Oct 76 (Eng) DL/77FEB212

REGULATION OF SECRETION FROM THE ADRENAL MEDULLA. EVIDENCE FOR ADENYLATE CYCLASE ACTIVITY IN SECRETORY VESICLE MEMBRANES. Zinder O, Nikoijevic O, Hoffman PG, Pollard HB *J Biol Chem* 241: 2179-81, 10 Apr 76 (Eng) *DL/77FEB569

2.B.3.1 EPINEPHRINE

SOMATOSTATIN AND INSULIN RELEASE FROM ISOLATED RAT PANCREATIC ISLETS STIMULATED BY GLUCOSE. Schauder P, McIntosh C, Arends J, Arnold R, Frerichs H, Creutzfeldt W *FEBS Lett* 68: 225-7, 1 Oct 76 (Eng) DL/77FEB79

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL)] Leclercq-Meyer V, Malaise WJ *Diabetes Metab* 1: 119-22, Jun 75 (Fre) DL/77FEB93

THE EFFECTS OF HORMONES AND PROSTAGLANDINS ON THE CALCIUM POOLS IN CULTURED MYOCARDIAL CELLS. Moura AM, Simpkins H *Mol Cell Endocrinol* 5: 349-57, OCT 76 (Eng) DL/77FEB98

THYROTOXIC PERIODIC PARALYSIS: A PECULIAR CASE WITH UNUSUAL DYSTONIC BEHAVIOR AND VARIABLE RELATIONS OF PARALYSIS TO SERUM POTASSIUM LEVELS. Kusakabe T, Yoshida M, Nishikawa M *J Clin Endocrinol Metab* 43: 730-40, Oct 76 (Eng) DL/77FEB167

PHYSIOLOGICAL RESPONSES TO STRESS WITH REFERENCE TO THE DOMESTIC FOWL. Freeman BM *Lab Anim* 10: 385-8, Oct 76 (Eng) [15] DL/77FEB230

STUDIES ON THE ROLE OF CAMP-DEPENDENT PROTEIN KINASE IN THE ACTIONS OF GLUCAGON AND CATECHOLAMINES

ON LIVER GLYCOGEN METABOLISM. Cherrington AD, Exton JH *Metabolism* 25: 1351-4, Nov 76 (Eng) DL/77FEB272

ALPHA CELL FUNCTION IN DIABETES MELLITUS. Gerich JE *Metabolism* 25: 1513-6, Nov 76 (Eng) DL/77FEB312

GLUCAGON SECRETION FROM THE PERFUSED RAT PANCREAS FOLLOWING ACUTE AND CHRONIC STREPTOZOTOCIN. Weir GC, Atkins RF, Martin DB *Metabolism* 25: 1519-21, Nov 76 (Eng) DL/77FEB314

URETHANE-INDUCED HYPERGLYCEMIA IN RATS. Krzemien K, Lipowska-Zabawska L *Acta Physiol Pol* 27: 369-76, Jul-Aug 76 (Eng) DL/77FEB458

EXTRACELLULAR CALCIUM AND ADRENERGIC AND CHOLINERGIC EFFECTS ON ISLET BETA-CELL FUNCTION. Burr IM, Slonim AE, Burke V, Fletcher T *Am J Physiol* 231: 1246-9, Oct 76 (Eng) DL/77FEB476

THE EFFECT OF GLUCOSE, INSULIN AND ADRENALINE ON GLYCEROL METABOLISM IN VITRO IN RAT ADIPOSE TISSUE. Dominguez MC, Herrera E *Biochem J* 158: 183-90, 15 Aug 76 (Eng) DL/77FEB503

ADRENALINE-INDUCED DESENSITIZATION OF LIVER ADENYLATE CYCLASE. Lam V, Bar HP *Biochem Pharmacol* 25: 2103-4, 15 Sep 76 (Eng) DL/77FEB513

[EFFECT OF ADRENALINE, NORADRENALINE, DOPAMINE, DOPA AND PHENYLALANINE ON LIPID PEROXIDATION IN LIVER MITOCHONDRIA MEMBRANES] Sergeev PV, Seifulla RD, Dunaev VG, Rudnev IuN *Biull Eksp Biol Med* 80: 25-8, Dec 75 (Rus) *DL/77FEB526

ADIPOCYTE BETA-ADRENERGIC RECEPTORS. IDENTIFICATION AND SUBCELLULAR LOCALIZATION BY (-)-[3H]DIHYDROALPRENOLOL BINDING. Williams LT, Jarett L, Lefkowitz RJ *J Biol Chem* 251: 3096-104, 25 May 76 (Eng) *DL/77FEB572

THE EFFECT OF ALPHA AND BETA ADRENERGIC RECEPTOR STIMULATION ON THE ADENYLATE CYCLASE ACTIVITY OF HUMAN ADIPOCYTES. Burns TW, Langley PE *J Cyclic Nucleotide Res* 1: 321-8, 1975 (Eng) *DL/77FEB579

INFLUENCE ON ADIPOCYTE PLASMA MEMBRANE BOUND PROTEIN KINASE BY FEEDBACK REGULATOR. Ho R, Russell T, Asakawa T, Snyder RP *J Cyclic Nucleotide Res* 1: 349-58, 1975 (Eng) *DL/77FEB580

LIPOLYSIS AS A FUNCTION OF CELL NUMBERS AND FAT CONTENT: COMPARISON BETWEEN ISOLATED RAT AND DOG ADIPOCYTES. Hotta N, Sirek OV, Sirek A, Policova Z *Pahlavi Med J* 7: 167-79, Apr 76 (Eng) *DL/77FEB618

TRIGLYCERIDE METABOLISM IN EPIDIDYMAL ADIPOSE TISSUE OF OBESE ANIMALS. Okuda H *Pharmacol Biochem Behav* 3: 145-7, 1975 (Eng) *DL/77FEB626

MECHANISM OF ACTIONS OF ADRENALINE AND ACTH IN FAT MOBILIZATION. Okuda H *Pharmacol Biochem Behav* 3: 149-53, 1975 (Eng) *DL/77FEB627

CATECHOLAMINES AND MYOCARDIAL INFARCTION. Young RC, Thomas M, Evans ME, Opie LH *Recent Adv Stud Cardiac Struct Metab* 1: 163-8, 1972 (Eng) *DL/77FEB637

MYOCARDIAL ION AND LIPID CHANGES DURING ISCHEMIA AND CATECHOLAMINE INDUCED NECROSIS: RELATION TO REGIONAL BLOOD FLOW. Regan TJ, Markov A,

Khan MI, Jesrani MU, Oldewurtel HA, Ettinger PO *Recent Adv Stud Cardiac Struct Metab* 1: 656-64, 1972 (Eng) *DL/77FEB649

PARTICIPATION OF CATECHOLAMINES AND CORTICAL HORMONES IN THE MYOCARDIAL METABOLIC ADAPTATION TO MECHANICAL OVERLOAD OF THE HEART. Fízel A, Fízelova A *Recent Adv Stud Cardiac Struct Metab* 1: 814-27, 1972 (Eng) *DL/77FEB655

UTILIZATION OF ENDOGENOUS LIPIDS AND GLYCOGEN IN THE PERFUSED RAT HEART: EFFECTS OF HYPOXIA AND EPINEPHRINE. Crass MF 3d, Shipp JC, Pieper GM *Recent Adv Stud Cardiac Struct Metab* 7: 219-24, 1975 (Eng) *DL/77FEB661

LIPOLYTIC ACTIVITY OF SWINE ADIPOCYTES. Mersmann HJ, Brown LJ, Beaving RD, Arakelian MC *Am J Physiol* 230: 1439-43, May 76 (Eng) *DL/77FEB730

2.B.3.2 NOREPINEPHRINE

[IN VITRO ASSAY FOR ACTH-RELEASING ACTIVITY USING ACTH RADIOIMMUNOASSAY: ACTH RELEASING ACTIVITIES BY VARIOUS DRUGS (AUTHORS TRANSL)] Hashimoto K, Takahara J, Hosogi H, Ofuji N, Yasuhara T *Folia Endocrinol Jpn* 52: 114-24, 20 Feb 76 (Jpn) DL/77FEB82

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteceuvre M, Bunceux JJ *Diabetes Metab* 1: 101-11, Jun 75 (Eng) DL/77FEB91

URETHANE-INDUCED HYPERGLYCEMIA IN RATS. Krzemien K, Lipowska-Zabawska L *Acta Physiol Pol* 27: 369-76, Jul-Aug 76 (Eng) DL/77FEB458

REGULATION BY LIPOLYTIC AND ANTILIPOLYTIC COMPOUNDS OF THE PHOSPHORYLATION OF SPECIFIC PROTEINS IN ISOLATED INTACT FAT CELLS. Forn J, Greengard P *Arch Biochem Biophys* 176: 721-33, Oct 76 (Eng) DL/77FEB488

DRUG MODIFICATION OF HYPOTHERMIA INDUCED BY CNS GLUCOPENIA IN THE MOUSE. Mager M, Robinson S, Freinkel N *Biochem J* 157: 559-64, 1 Sep 76 (Eng) DL/77FEB499

[EFFECT OF ADRENALINE, NORADRENALINE, DOPAMINE, DOPA AND PHENYLALANINE ON LIPID PEROXIDATION IN LIVER MITOCHONDRIA MEMBRANES] Sergeev PV, Seifulla RD, Dunaev VG, Rudnev IuN *Biull Eksp Biol Med* 80: 25-8, Dec 75 (Rus) *DL/77FEB526

REGULATION OF GLYCOGEN METABOLISM IN ASTROCYTOMA AND NEUROBLASTOMA CELLS IN CULTURE. Passonneau JV, Crites SK *J Biol Chem* 241: 2015-22, 10 Apr 76 (Eng) *DL/77FEB568

ADIPOCYTE BETA-ADRENERGIC RECEPTORS. IDENTIFICATION AND SUBCELLULAR LOCALIZATION BY (-)-[3H]DIHYDROALPRENOLOL BINDING. Williams LT, Jarett L, Lefkowitz RJ *J Biol Chem* 251: 3096-104, 25 May 76 (Eng) *DL/77FEB572

CONTROL OF GONADOTROPIN AND PROLACTIN SECRETION BY HYPOTHALAMIC RELEASING AND INHIBITING HORMONES. PP. 80-9, McCann SM, Cooper K, Harms PG, Libertun C, Negro-Vilar A, Ojeda SR, Orsias R, Moss RL, Fawcett CP, Krulich L, Gilon C, Amoss M, Rivier C, Ling N, Burgus R, Guillemin R *In* Lederis K, Cooper KE, ed. *Recent studies of*

2.D PARATHYROID GLANDS

2.C.2 THYROID ANTAGONISTS

[DRUG-INDUCED PANMYELOPATHIES] Heimgel H, Kern P *Blut* 33: 1-10, Jul 76 (Ger) [35] DL/77FEB16

CONFORMATIONAL CHANGES IN CYTOCHROME AA3 AND ATP SYNTHETASE OF THE MITOCHONDRIAL MEMBRANE AND THEIR ROLE IN MITOCHONDRIAL ENERGY TRANSDUCTION. Wikstrom MK, Saari HT *Mol Cell Biochem* 11: 17-33, 26 Mar 76 (Eng) [70] *DL/77FEB612

2.C.3 THYROID DISORDERS

[RELATIONSHIPS BETWEEN THYROTROPIN, GROWTH HORMONE AND INSULIN IN HYPOTHYROIDISM] Vergara Rodriguez J, De Los Monteros Mena AE, Chavarria Boniquei C *Bol Med Hosp Infant Mex* 33: 1021-31, Sep-Oct 76 (Spa) DL/77FEB1

[DIABETES AND AUTOIMMUNE DISEASES (AUTHORS TRANSL)] Bastenica PA *Diabet Metab* 1: 3-6, Mar 75 (Fre) DL/77FEB85

IMPAIRED PLASMA INSULIN RESPONSE TO ARGININE IN HYPERTHYROIDISM. IMPORTANT ROLE OF THE RISE OF BLOOD GLUCOSE IN THE SECOND PHASE OF INSULIN RELEASE INDUCED BY ARGININE. Imura H, Seino Y, Ikeda M, Taminato T, Miyamoto Y *Diabetes* 25: 961-8, Oct 76 (Eng) DL/77FEB104

THYROTOXIC PERIODIC PARALYSIS: A PECULIAR CASE WITH UNUSUAL DYSTONIC BEHAVIOR AND VARIABLE RELATIONS OF PARALYSIS TO SERUM POTASSIUM LEVELS. Kusakabe T, Yoshida M, Nishikawa M *J Clin Endocrinol Metab* 43: 730-40, Oct 76 (Eng) DL/77FEB167

[CHARACTERISTICS OF THYROTOXICOSIS ASSOCIATED WITH DIABETES MELLITUS] Kuleshov EV *Khirurgiia (Mosk)* 83-7, Sep 76 (Rus) DL/77FEB226

PROPRANOLOL EFFECT ON PLASMA GLUCOSE, FREE FATTY ACID, INSULIN, AND GROWTH HORMONE IN GRAVES DISEASE. Ortigosa JL, Mendoza F, Argote RM, Garcia G, Cervantes C, Parra A *Metabolism* 25: 1201-7, Nov 76 (Eng) DL/77FEB260

[THE BEHAVIOR OF LIPOPROTEINS, CHOLESTEROL, TRIGLYCERIDES, FREE FATTY ACIDS AND FREE GLYCEROL IN SERUM OF RATS WITH EXPERIMENTAL HYPERTHYROIDISM AND HYPOTHYROIDISM] Hubner G, Renner K, Rauer G *Endokrinologie* 67: 60-6, Mar 67 (Ger) *DL/77FEB548

ACUTE AND CHRONIC ESTROGEN EFFECTS UPON SERUM SOMATOMEDIN ACTIVITY, GROWTH HORMONE, AND PROLACTIN IN MAN. Wiedemann E, Schwartz E, Frantz AG Jr *Clin Endocrinol Metab* 42: 942-52, May 76 (Eng) *DL/77FEB577

MYOCARDIAL HIGH ENERGY PHOSPHATES IN EXPERIMENTAL THYROTOXICOSIS IN GUINEA PIGS. Jahrmarker H, Rackwitz R, Otter HP *Recent Adv Stud Cardiac Struct Metab* 7: 199-207, 1975 (Eng) *DL/77FEB659

2.D PARATHYROID GLANDS

THE ENDOCRINE SYSTEM IN PATIENTS WITH ACUTE RENAL INSUFFICIENCY. Kokot F, Kuska J *Kidney Int [Suppl]* 10: 826-31, Oct 76 (Eng) DL/77FEB223

hypothalamic function. Basel, Karger, 1974. WL 312 165r 1973. (Eng) *DL/77FEB589

CATECHOLAMINES AND MYOCARDIAL INFARCTION. Young RC, Thomas M, Evans ME, Opie LH *Recent Adv Stud Cardiac Struct Metab* 1: 163-8, 1972 (Eng) *DL/77FEB637

ADRENERGIC NEUROHUMORS IN THE HEART OF HAMSTERS WITH HEREDITARY MYOPATHY DURING CARDIAC HYPERTROPHY AND FAILURE. Angelakos ET, Carballo LC, Daniels JB, King MP, Bajusz E *Recent Adv Stud Cardiac Struct Metab* 1: 262-78, 1972 (Eng) *DL/77FEB641

METABOLIC CHANGES IN INFARCTED AND NON-INFARCTED MYOCARDIUM DURING THE POSTINFARCTION PERIOD. Gudbjarnason S, Ravens KG, Mathes P *Recent Adv Stud Cardiac Struct Metab* 1: 439-46, 1972 (Eng) *DL/77FEB644

PARTICIPATION OF CATECHOLAMINES AND CORTICAL HORMONES IN THE MYOCARDIAL METABOLIC ADAPTATION TO MECHANICAL OVERLOAD OF THE HEART. Fízel A, Fízelova A *Recent Adv Stud Cardiac Struct Metab* 1: 814-27, 1972 (Eng) *DL/77FEB655

METABOLISM OF NOREPINEPHRINE IN NONINFARCTED HEART MUSCLE AFTER EXPERIMENTAL MYOCARDIAL INFARCTION. Mathes P, Sack DW, Gudbjarnason S *Recent Adv Stud Cardiac Struct Metab* 7: 283-7, 1975 (Eng) *DL/77FEB670

OXYGEN UPTAKE AND TISSUE OXYGEN TENSION DURING ADRENERGIC STIMULATION IN CANINE SUBCUTANEOUS ADIPOSE TISSUE. Fredholm BB, Linde B, Prewitt RL, Johnson PC *Acta Physiol Scand* 97: 48-59, Mar 76 (Eng) *DL/77FEB690

2.B.4 ADRENALECTOMY

ADRENAL AND LIVER PARTICIPATION IN THE RATS POST-STRESS DIABETIC RESPONSE. Vargas I, Kawada ME *Horm Metab Res* 8: 383-8, Sep 76 (Eng) DL/77FEB144

[HORMONAL AND VITAMIN REGULATION OF GLUCOSE-6-PHOSPHATASES ACTIVITY IN THE LIVER] Vinogradov VV, Mandrik KA, Ostrovskii IuM *Ukr Biokhim Zh* 48: 421-5, Jul-Aug 76 (Rus) DL/77FEB417

URETHANE-INDUCED HYPERGLYCEMIA IN RATS. Krzemien K, Lipowska-Zabawska I. *Acta Physiol Pol* 27: 369-76, Jul-Aug 76 (Eng) DL/77FEB458

PARTICIPATION OF CATECHOLAMINES AND CORTICAL HORMONES IN THE MYOCARDIAL METABOLIC ADAPTATION TO MECHANICAL OVERLOAD OF THE HEART. Fízel A, Fízelova A *Recent Adv Stud Cardiac Struct Metab* 1: 814-27, 1972 (Eng) *DL/77FEB655

A RAPID METHOD FOR THE DETERMINATION OF GLYCOGEN CONTENT AND RADIOACTIVITY IN SMALL QUANTITIES OF TISSUE OR ISOLATED HEPATOCYTES. Chan TM, Exton JH *Anal Biochem* 71: 96-105, Mar 76 (Eng) *DL/77FEB701

2.B.5 ADRENAL DISORDERS

[DIABETES AND AUTOIMMUNE DISEASES (AUTHORS TRANSL)] Bastenica PA *Diabet Metab* 1: 3-6, Mar 75 (Fre) DL/77FEB85

HUMOR MANIFESTATIONS OF NEOPLASMS. Bartuska DG *Semin Oncol* 2: 405-9, Dec 75 (Eng) DL/77FEB401

[HORMONAL AND VITAMIN REGULATION OF GLUCOSE-6-PHOSPHATASES ACTIVITY IN THE LIVER] Vinogradov VV, Mandrik KA, Ostrovskii IuM *Ukr Biokhim Zh* 48: 421-5, Jul-Aug 76 (Rus) DL/77FEB417

2.C THYROID GLAND

2.C.1 THYROID HORMONES

PRESENT PARADOXES IN THE ENVIRONMENTAL CONTROL OF HEPATIC PROLIFERATION. Leffert HL, Koch KS, Rubalcava B *Cancer Res* 36: 4250-5, Nov 76 (Eng) DL/77FEB38

THE INHIBITION OF INSULIN SECRETION FROM THE PERFUSED RAT PANCREAS AFTER THYROXINE TREATMENT. Lenzen S, Joost HG, Hasselblatt A *Diabetologia* 12: 495-500, Oct 76 (Eng) DL/77FEB118

CONTROL OF HEPATIC PROLIFERATION: A WORKING HYPOTHESIS INVOLVING HORMONES, LIPOPROTEINS, AND NOVEL NUCLEOTIDES. Koch KS, Leffert HL *Metabolism* 25: 1419-22, Nov 76 (Eng) DL/77FEB287

HORMONAL STIMULATION OF DNA SYNTHESIS IN PRIMARY CULTURES OF ADULT RAT HEPATOCYTES. Richman RA, Claus TH, Pilks SJ, Friedman DL *Proc Natl Acad Sci USA* 73: 3589-93, Oct 76 (Eng) DL/77FEB360

[RELATIONSHIP BETWEEN HORMONE CONCENTRATION IN PERIPHERAL BLOOD IN HYPERTENSION, ARTERIOSCLEROSIS AND OBESITY] Kokina LP, Lyskova MN, Tkacheva GA, Gabuniia RI, Syzgantseva LM *Ter Arkh* 48: 81-4, 1976 (Rus) DL/77FEB410

MOLECULAR AND PHYSIOLOGICAL ASPECTS OF ADENINE NUCLEOTIDE TRANSPORT IN MITOCHONDRIA. Vignais PV *Biochim Biophys Acta* 456: 1-38, 30 Apr 76 (Eng) [188] *DL/77FEB524

[THE BEHAVIOR OF LIPOPROTEINS, CHOLESTEROL, TRIGLYCERIDES, FREE FATTY ACIDS AND FREE GLYCEROL IN SERUM OF RATS WITH EXPERIMENTAL HYPERTHYROIDISM AND HYPOTHYROIDISM] Hubner G, Renner K, Rauer G *Endokrinologie* 67: 60-6, Mar 67 (Ger) *DL/77FEB548

THE HORMONAL RESTORATION OF THE INTRINSIC CONTRACTILE FUNCTION OF THE ATROPHIC HEARTS OF HYPOPHYSECTOMIZED RATS. Korecky B, Taichman GC, Minelli R, Beznak M *Recent Adv Stud Cardiac Struct Metab* 1: 71-80, 1972 (Eng) *DL/77FEB651

MYOCARDIAL HIGH ENERGY PHOSPHATES IN EXPERIMENTAL THYROTOXICOSIS IN GUINEA PIGS. Jahrmarker H, Rackwitz R, Otter HP *Recent Adv Stud Cardiac Struct Metab* 7: 199-207, 1975 (Eng) *DL/77FEB659

EFFECT OF AGING ON RIGHT VENTRICULAR ANOXIC RESISTANCE. Martin LG, McGrath JJ, Connors JM *Recent Adv Stud Cardiac Struct Metab* 7: 267-74, 1975 (Eng) *DL/77FEB668

INFLUENCE OF THE HYPOPHYSIS ON MITOCHONDRIAL PROTEIN SYNTHESIS. de Favelukes SS, de Tarlovsky MS, Bedetti CD, Stoppani AO *Acta Physiol Lat Am* 25: 107-11, 1975 (Eng) *DL/77FEB688

A MODEL FOR THERAPEUTIC INTERVENTIONS ON ESTABLISHED CORONARY ATHEROSCLEROSIS IN A NONHUMAN PRIMATE. Malinow MR, McLaughlin O, Papworth L, Naito HK, Lewis L, McNulty WP *Adv Exp Med Biol* 67: 3-31, 1976 (Eng) *DL/77FEB694

2.E PITUITARY GLAND

2.E PITUITARY GLAND

COMPARISON STUDIES OF NEUROTENSIN AND XENOPSIN UPON PANCREATIC SECRETION IN THE DOG [PROCEEDINGS]. Ishida T, Kawamura K, Goto A, Nishina Y, Takahara J *Metabolism* 25: 1467, Nov 76 (Eng) DL/77FEB301

2.E.1 PITUITARY HORMONES, ANTERIOR

2.E.1.1 CORTICOTROPIN

HORMONE REGULATED REDOX FUNCTION IN PLASMA MEMBRANES. Low H, Crane FL *FEBS Lett* 68: 157-9, 1 Oct 76 (Eng) DL/77FEB77

[IN VITRO ASSAY FOR ACTH-RELEASING ACTIVITY USING ACTH RADIOIMMUNOASSAY: ACTH RELEASING ACTIVITIES BY VARIOUS DRUGS (AUTHORS TRANSL)] Hashimoto K, Takahara J, Hosogi H, Ofuji N, Yasuhara T *Folia Endocrinol Jpn* 52: 114-24, 20 Feb 76 (Jpn) DL/77FEB82

PHYSIOLOGICAL RESPONSES TO STRESS WITH REFERENCE TO THE DOMESTIC FOWL. Freeman BM *Lab Anim* 10: 385-8, Oct 76 (Eng) [15] DL/77FEB230

[GROWTH HORMONE DETERMINATIONS IN CHILDREN WITH RHEUMATOID ARTHRITIS AND STILL'S SYNDROME (PROCEEDINGS)] Butenandt O, Eder R, Clados-Kelch A *Z Rheumatol* 35 suppl 4: suppl 47-53, 1976 (Ger) DL/77FEB445

REGULATION BY LIPOLYTIC AND ANTILIPOLYTIC COMPOUNDS OF THE PHOSPHORYLATION OF SPECIFIC PROTEINS IN ISOLATED INTACT FAT CELLS. Form J, Greengard P *Arch Biochem Biophys* 176: 721-33, Oct 76 (Eng) DL/77FEB488

EFFECTS OF GROWTH HORMONE RELEASE-INHIBITING HORMONE AND BROMOCRYPTINE (CB 154) IN STATES OF ABNORMAL PITUITARY-ADRENAL FUNCTION. Benker G, Hackenberg K, Hamburger B, Reinwein D *Clin Endocrinol (Oxf)* 5: 187-90, Mar 76 (Eng) *DL/77FEB542

[FUNCTIONAL ORGANIZATION OF THE HYPOTHALAMUS IN REGULATION OF THE HYPOTHYSEAL-ADRENOCORTICAL SYSTEM] Filaretov AA, Vasilyevskaia LV *Dokl Akad Nauk SSSR* 227: 1018-20, 1976 (Rus) *DL/77FEB546

MECHANISM OF ACTION OF HYPOTHALAMIC RELEASING HORMONES. ROLE OF IONS IN THE RELEASE OF ADENOHYPOPHYSIAL HORMONES. PP. 207-15. Kraicer J *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function. Basel, Karger, 1974. WL 312 165r* 1973. (Eng) [18] *DL/77FEB591

MECHANISM OF ACTIONS OF ADRENALINE AND ACTH IN FAT MOBILIZATION. Okuda H *Pharmacol Biochem Behav* 3: 149-53, 1975 (Eng) *DL/77FEB627

PARTICIPATION OF CATECHOLAMINES AND CORTICAL HORMONES IN THE MYOCARDIAL METABOLIC ADAPTATION TO MECHANICAL OVERLOAD OF THE HEART. Fizez A, Fizezova A *Recent Adv Stud Cardiac Struct Metab* 1: 814-27, 1972 (Eng) *DL/77FEB655

[ENDOCRINE CELLS PRODUCING POLYPEPTIDES AND BIOGENIC AMINES] Bussolati G *Riv Istochim Norm Patol* 18: 95-118, 1974 (Ita) *DL/77FEB679

LIPOLYTIC ACTIVITY OF SWINE ADIPOCYTES. Mersmann HJ, Brown LJ, Beuving RD, Arakelian MC *Am J Physiol* 230: 1439-43, May 76 (Eng) *DL/77FEB700

MULTIPOTENT LIPOTROPIC HORMONES. IN SEARCH OF A PITUITARY CELL PRODUCING MULTIPOTENT LPH. Furth J, Chretien M, Lis M, Belanger A, Moy P, Grauman J *Arch Pathol* 99: 572-81, Nov 75 (Eng) *DL/77FEB710

2.E.1.2 SOMATOTROPIN

[RELATIONSHIPS BETWEEN THYROTROPIN, GROWTH HORMONE AND INSULIN IN HYPOTHYROIDISM] Vergara Rodriguez J, De Los Monteros Mena AE, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 1021-31, Sep-Oct 76 (Spa) DL/77FEB1

[INTRAVENOUS AND ORAL GLUCOSE: PRODUCTION OF INSULIN AND GROWTH HORMONE IN THE NEWBORN INFANT] Dorantes Alvarez L, De Los Monteros Mena AE, Matus Seueira A, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 979-92, Sep-Oct 76 (Spa) DL/77FEB3

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltzer C, Leclercq-Meyer V, Mialhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77FEB86

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerasi E *Diabete Metab* 1: 51-6, Mar 75 (Eng) DL/77FEB88

MODULATION OF FATTY ACID METABOLISM BY GLUCAGON IN MAN. IV. EFFECTS OF A PHYSIOLOGIC HORMONE INFUSION IN NORMAL MAN. Schade DS, Eaton RP *Diabetes* 25: 978-83, Oct 76 (Eng) DL/77FEB107

EFFECT OF SOMATOSTATIN ON METABOLIC AND HORMONAL CHANGES INDUCED BY NICOTINIC ACID IN INSULIN-DEPENDENT DIABETICS. Luyckx AS, Lefebvre PJ *Diabetologia* 12: 447-53, Oct 76 (Eng) DL/77FEB113

QUANTITATIVE EVALUATION OF SOMATOTROPIC CELLS (SC) IN THE ADENOHYPOPHYSIS OF NORMAL AND DIABETIC MALE CHINESE HAMSTERS. Deslex P, Rossi GL *Diabetologia* 12: 489-93, Oct 76 (Eng) DL/77FEB117

ESTIMATES OF THE KINETIC PARAMETERS OF GROWTH HORMONE METABOLISM IN FED AND FASTED CALVES AND SHEEP. Trenkle A *J Anim Sci* 43: 1035-43, Nov 76 (Eng) DL/77FEB153

CELL SURFACE RECEPTORS FOR INSULIN AND HUMAN GROWTH HORMONE. EFFECT OF MICROTUBULE AND MICROFILAMENT MODIFIERS. Van Obberghen E, De Meyts P, Roth J *J Biol Chem* 251: 6844-51, 10 Nov 76 (Eng) DL/77FEB161

A STUDY OF PITUITARY FUNCTION IN PATIENTS WITH IDIOPATHIC HEMOCHROMATOSIS. Walsh CH, Wright AD, Williams JW, Holder G *J Clin Endocrinol Metab* 43: 866-72, Oct 76 (Eng) DL/77FEB169

GROWTH HORMONE AND INSULIN SECRETION. PP. 116-26. Bennett LL, Curry DL *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381* 1975. (Eng) DL/77FEB180

GROWTH HORMONE RELEASE IN HUNTINGTONS DISEASE. PP. 252-60. Podolsky S, Leopold NA *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381* 1975. (Eng) DL/77FEB181

HUMAN GROWTH HORMONE CHANGES WITH AGE. PP. 261-70. Bazzarre TL, Johanson AJ, Huseman CA, Varma MM, Blizzard RM *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381* 1975. (Eng) DL/77FEB182

IN VIVO AND IN VITRO ACTIONS OF SYNTHETIC PART SEQUENCES OF HUMAN PITUITARY GROWTH HORMONE. PP. 41-9. Bornstein J *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381* 1975. (Eng) DL/77FEB183

MAMMOTROPIC HORMONES IN RUMINANTS. PP. 422-32. Forsyth IA, Hart IC *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381* 1975. (Eng) [91] DL/77FEB184

NEUROENDOCRINE CONTROL OF GROWTH HORMONE SECRETION: EXPERIMENTAL AND CLINICAL STUDIES. PP. 236-51. Luzzi A, Panerai AE, Chiodini PG, Secchi C, Cocchi D, Botalla L, Silvestrini F, Muller EE *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381* 1975. (Eng) DL/77FEB185

PLASMA SOMATOMEDIN. CLINICAL OBSERVATIONS. PP. 271-85. Van den Brande JL *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381* 1975. (Eng) [81] DL/77FEB186

REGULATION OF SOMATOMEDIN GENERATION. PP. 169-77. Daughaday WH, Phillips LS, Herrington AC *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381* 1975. (Eng) DL/77FEB188

SEROTONINERGIC CONTROL OF HUMAN GROWTH HORMONE SECRETION: THE ACTIONS OF L-DOPA AND 2-BROMO-ALPHA-ERGOCRYPTINE. PP. 222-35. Smythe GA, Compton PJ, Lazarus L *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381* 1975. (Eng) DL/77FEB189

STUDIES ON THE NATURE OF PLASMA GROWTH HORMONE. PP. 75-83. Ellis S, Grindeland RE, Reilly TJ, Yang SH *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381* 1975. (Eng) DL/77FEB191

WEIGHT LOSS IN PATIENTS TREATED LONG-TERM WITH LEVODOPA. METABOLIC ASPECTS. Vardi J, Oberman Z, Rabey I, Streifler M, Ayalon D, Herzberg M *J Neurol Sci* 30: 33-40, Nov 76 (Eng) DL/77FEB201

THE ENDOCRINE SYSTEM IN PATIENTS WITH ACUTE RENAL INSUFFICIENCY. Kokot F, Kuska J *Kidney Int [Suppl]* 10: 826-31, Oct 76 (Eng) DL/77FEB223

[RADIOIMMUNOLOGIC DETERMINATION OF STH, INSULIN, AND C-PEPTIDE. INDICATION, FUNCTIONAL TESTS, INTERPRETATION OF THE FINDINGS] Schroder KE, Rapis S, Beischer W *Med Welt* 27: 1720-5, 10 Sep 76 (Ger) DL/77FEB257

PROPANOLOL EFFECT ON PLASMA GLUCOSE, FREE FATTY ACID, INSULIN, AND

2.E PITUITARY GLAND

- GROWTH HORMONE IN GRAVES DISEASE.** Ortigosa JL, Mendoza F, Argote RM, Garcia G, Cervantes C, Parra A *Metabolism* 25: 1201-7, Nov 76 (Eng) DL/77FEB260
- HORMONAL REGULATION OF THE AFFINITY AND CONCENTRATION OF HORMONE RECEPTORS IN TARGET CELLS.** DeMeys P, Kahn CR, Roth J, Bar RS *Metabolism* 25: 1365-70, Nov 76 (Eng) DL/77FEB275
- METABOLIC EFFECTS OF LONG-TERM SOMATOSTATIN INFUSION IN MAN.** Gerich JE *Metabolism* 25: 1505-7, Nov 76 (Eng) DL/77FEB310
- HORMONAL STIMULATION OF DNA SYNTHESIS IN PRIMARY CULTURES OF ADULT RAT HEPATOCYTES.** Richman RA, Claus TH, Pilgis SJ, Friedman DL *Proc Natl Acad Sci USA* 73: 3589-93, Oct 76 (Eng) DL/77FEB360
- THE BIOLOGY OF GROWTH HORMONE.** Kostyo JL, Reagan CR *Pharmacol Ther* [B] 2: 591-604, 1976 (Eng) [110] DL/77FEB362
- NEUROENDOCRINE STUDIES OF DEPRESSIVE ILLNESS.** Sachar EJ, Roffwarg HP, Gruen PH, Altman N, Sassin J *Pharmakopsychiatr Neuropsychopharmakol* 9: 11-7, Jan 76 (Eng) DL/77FEB363
- [FATTY ACID PATTERNS AND GLUCOSE TOLERANCE IN HUNTINGTONS CHOREA (AUTHORS TRANSL.)]** Schubotz R, Hausmann L, Kaffarnik H, Zehner J, Oepen H *Res Exp Med (Berl)* 167: 203-15, 2 Jul 76 (Ger) DL/77FEB376
- HYPOLYCEMIA: THE UNDISCLOSED.** Blonde L, Riddick FA Jr *South Med J* 69: 1261-5, Oct 76 (Eng) DL/77FEB402
- HORMONAL RESPONSES AND THEIR EFFECT ON METABOLISM.** Wilmore DW *Surg Clin North Am* 56: 999-1018, Oct 76 (Eng) DL/77FEB407
- [GROWTH HORMONE DETERMINATIONS IN CHILDREN WITH RHEUMATOID ARTHRITIS AND STILL'S SYNDROME (PROCEEDINGS)]** Butenandt O, Eder R, Clados-Kelch A *Z Rheumatol* 35 suppl 4: suppl 47-53, 1976 (Ger) DL/77FEB445
- PHYSICAL ACTIVITY AND HORMONES.** Adlercreutz H, Harkonen M, Kuopasalmi K, Kosunen K, Naveri H, Rehnens S *Adv Cardiol* 18: 144-57, 1976 (Eng) DL/77FEB461
- EFFECT OF SOMATOTROPIN UPON A FRESH-WATER FISH, CHANNA PUNCTATUS (BLOCH).** Gill TS *Anat Anz* 140: 199-201, 1976 (Eng) DL/77FEB485
- GROWTH HORMONE IN EXERCISE: COMPARISON OF PHYSIOLOGICAL AND PHARMACOLOGICAL STIMULI.** Sutton J, Lazarus L *Biochem J* 157: 523-7, 1 Sep 76 (Eng) DL/77FEB498
- [EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL AND GROWTH HORMONE LEVELS IN YOUNG WEIGHT LIFTERS]** Lukaszewska J, Biczowa B, Bobilewicz D, Wilk M, Obuchowicz-Fidelus B *Endokrynol Pol* 27: 149-57, Mar-Apr 76 (Pol) DL/77FEB549
- [EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL, TESTOSTERONE AND GROWTH HORMONE LEVELS IN WEIGHT LIFTERS]** Skierska E, Ustupski J, Biczowa B, Lukaszewska J *Endokrynol Pol* 27: 159-65, Mar-Apr 76 (Pol) DL/77FEB550
- MEAN 24-HOUR GROWTH HORMONE AND TESTOSTERONE CONCENTRATIONS IN RELATION TO PUBERTAL GROWTH SPURT IN BOYS WITH NORMAL OR DELAYED PUBERTY.** Butenandt O, Eder R, Wohlfarth K, Bidlingmaier F, Knorr D *Eur J Pediatr* 122: 85-92, 4 May 76 (Eng) DL/77FEB551
- INFLUENCE OF CHRONIC THYROTROPIN-RELEASING HORMONE INJECTIONS ON SECRETION OF PROLACTIN, THYROTROPIN AND GROWTH HORMONE AND ON GROWTH RATE IN WETHER LAMBS.** Davis SL, Hill DM, Ohlson DL, Jacobs JA *J Anim Sci* 42: 1244-50, May 76 (Eng) DL/77FEB566
- ACUTE AND CHRONIC ESTROGEN EFFECTS UPON SERUM SOMATOMEDIN ACTIVITY, GROWTH HORMONE, AND PROLACTIN IN MAN.** Wiedemann E, Schwartz E, Frantz AG Jr *Clin Endocrinol Metab* 42: 942-52, May 76 (Eng) DL/77FEB577
- DIET-INDUCED ALTERATIONS OF HIGH SECRETION IN MAN.** Merimee TJ, Pulkkinen AJ, Burton CE Jr *Clin Endocrinol Metab* 62: 931-7, May 76 (Eng) DL/77FEB578
- ENDOCRINE AND EXTRA-ENDOCRINE STUDIES OF HYPOTHALAMIC HORMONES IN MAN.** PP. 196-206. Kastin AJ, Schally AV, Ehrensing RH, Barbeau A *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function.* Basel, Karger, 1974. WL 312 165r 1973. (Eng) [44] DL/77FEB590
- CIRCADIAN PATTERN OF PROLACTIN AND GROWTH HORMONE LEVELS IN FEMALE RATS OF TWO STRAINS.** Esber HJ, Kuo E, Bogden AE *Lab Anim Sci* 26: 186-9, Apr 76 (Eng) DL/77FEB604
- DOPAMINE AND INHIBITION OF PROLACTIN AND GROWTH-HORMONE SECRETION.** Massara F, Camanni F, Belforte L, Molinatti GM *Lancet* 1: 913, 24 Apr 76 (Eng) DL/77FEB606
- HUMAN PITUITARY GROWTH HORMONE: RESTORATION OF FULL BIOLOGICAL ACTIVITY BY NONCOVALENT INTERACTION OF TWO FRAGMENTS OF THE HORMONE.** Li CH, Bewley TA *Proc Natl Acad Sci USA* 73: 1476-9, May 76 (Eng) DL/77FEB623
- STRESS-INDUCED GROWTH HORMONE RELEASE: PSYCHOLOGIC AND PHYSIOLOGIC CORRELATES.** Brown WA, Heninger G *Psychosom Med* 38: 145-7, Mar-Apr 76 (Eng) DL/77FEB630
- THE HORMONAL RESTORATION OF THE INTRINSIC CONTRACTILE FUNCTION OF THE ATROPHIC HEARTS OF HYPOPHYSECTOMIZED RATS.** Korecky B, Taichman GC, Minelli R, Beznak M *Recent Adv Stud Cardiac Struct Metab* 1: 71-80, 1972 (Eng) DL/77FEB651
- INFLUENCE OF THE HYPOPHYSIS ON MITOCHONDRIAL PROTEIN SYNTHESIS.** de Favelukes SS, de Tarlovsky MS, Bedetti CD, Stoppani AO *Acta Physiol Lat Am* 25: 107-11, 1975 (Eng) DL/77FEB688
- KINETICS OF PROTEIN SYNTHESIS AND RELEASE IN THE STH-CELL OF THE MOUSE ANTERIOR PITUITARY AS REVEALED BY ELECTRON MICROSCOPIC AUTORADIOGRAPHY OF 3H-AMINO ACIDS.** Hiura M, Komatsu M, Fujita H *Arch Histol Jpn* 38: 347-57, Feb 76 (Eng) DL/77FEB709
- GROWTH HORMONE, CYCLIC NUCLEOTIDES AND THE RAPID CONTROL OF TRANSLATION IN HEART MUSCLE.** Mowbray J, Davies JA, Bates DJ, Jones CJ *Biochem J* 152: 583-92, Dec 75 (Eng) DL/77FEB712
- 2.E.1.3 THYROTROPIN**
- [RELATIONSHIPS BETWEEN THYROTROPIN, GROWTH HORMONE AND INSULIN IN HYPOTHYROIDISM]** Vergara Rodriguez J, De Los Monteros Mena AE, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 1021-31, Sep-Oct 76 (Spa) DL/77FEB1
- A STUDY OF PITUITARY FUNCTION IN PATIENTS WITH IDIOPATHIC HEMOCHROMATOSIS.** Walsh CH, Wright AD, Williams JW, Holder G *J Clin Endocrinol Metab* 43: 866-72, Oct 76 (Eng) DL/77FEB169
- [LOW THYROTROPE HORMONE: A NEW ENTITY]** Berthezene F, Palfroy JC, Escallier A, Bizollon C, Mornex R *Nouv Presse Med* 5: 2138-40, 9 Oct 76 (Fre) DL/77FEB343
- INFLUENCE OF CHRONIC THYROTROPIN-RELEASING HORMONE INJECTIONS ON SECRETION OF PROLACTIN, THYROTROPIN AND GROWTH HORMONE AND ON GROWTH RATE IN WETHER LAMBS.** Davis SL, Hill DM, Ohlson DL, Jacobs JA *J Anim Sci* 42: 1244-50, May 76 (Eng) DL/77FEB566
- ENDOCRINE AND EXTRA-ENDOCRINE STUDIES OF HYPOTHALAMIC HORMONES IN MAN.** PP. 196-206. Kastin AJ, Schally AV, Ehrensing RH, Barbeau A *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function.* Basel, Karger, 1974. WL 312 165r 1973. (Eng) [44] DL/77FEB590
- 2.E.1.4 GONADOTROPINS, PITUITARY**
- [IN VITRO ASSAY FOR ACTH-RELEASING ACTIVITY USING ACTH RADIOIMMUNOASSAY: ACTH RELEASING ACTIVITIES BY VARIOUS DRUGS (AUTHORS TRANSL.)]** Hashimoto K, Takahara J, Hosogi H, Ofuji N, Yasuhara T *Folia Endocrinol Jpn* 52: 114-24, 20 Feb 76 (Jpn) DL/77FEB82
- LUTEINIZING RELEASE HORMONE TESTS IN IMPOTENT DIABETIC MALES.** Wright AD, London DR, Holder G, Williams JW, Rudd BT *Diabetes* 25: 975-7, Oct 76 (Eng) DL/77FEB106
- A STUDY OF PITUITARY FUNCTION IN PATIENTS WITH IDIOPATHIC HEMOCHROMATOSIS.** Walsh CH, Wright AD, Williams JW, Holder G *J Clin Endocrinol Metab* 43: 866-72, Oct 76 (Eng) DL/77FEB169
- GROWTH HORMONE RELEASE IN HUNTINGTONS DISEASE.** PP. 252-60. Podolsky S, Leopold NA *Ino Picile A, Muller EE, ed. Growth hormone and related peptides.* Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB181
- HUMAN GROWTH HORMONE CHANGES WITH AGE.** PP. 261-70. Bazzarre TL, Johanson AJ, Huseman CA, Varma MM, Blizzard RM *Ino Picile A, Muller EE, ed. Growth hormone and related peptides.* Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB182
- MAMMOTROPIC HORMONES IN RUMINANTS.** PP. 422-32. Forsyth IA, Hart IC *Ino Picile A, Muller EE, ed. Growth hormone and related peptides.* Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) [91] DL/77FEB184
- SEROTONINERGIC CONTROL OF HUMAN GROWTH HORMONE SECRETION: THE ACTIONS OF L-DOPA AND 2-BROMO-ALPHA-ERGOCRYPTINE.** PP. 222-35. Smythe GA, Compton PJ, Lazarus L *Ino Picile A, Muller EE, ed. Growth hormone and related peptides.* Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB189
- DIABETIC RETINOPATHY AND PROLACTIN [LETTER].** Harter M, Balarac N, Pouchard P, Koslowski JM, Krebs B, Ramaioli A *Lancet* 2: 961-2, 30 Oct 76 (Eng) DL/77FEB248
- NEUROENDOCRINE STUDIES OF DEPRESSIVE ILLNESS.** Sachar EJ, Roffwarg HP, Gruen PH, Altman N, Sassin J *Pharmakopsychiatr Neuropsychopharmakol* 9: 11-7, Jan 76 (Eng) DL/77FEB363

2.E PITUITARY GLAND

FUNCTION OF THE HYPOTHALAMUS AND CLINICAL ASPECTS. Laszlo F *Ther Hung* 24: 43-9, 1976 (Eng) DL/77FEB411

[ANALYSIS OF BREAST CELL DIFFERENTIATION IN TISSUE CULTURE UNDER THE INFLUENCE OF HORMONES] Kalantar IL, Khristaleva GI, Nepochurenko LV, Medvedev IK *Tsitologia* 18: 1014-9, Aug 76 (Rus) DL/77FEB416

PHYSICAL ACTIVITY AND HORMONES. Adlercreutz H, Harkonen M, Kuoppasalmi K, Kosunen K, Naveri H, Rehnun S *Adv Cardiol* 18: 144-57, 1976 (Eng) DL/77FEB461

PLASMA LEVELS OF FRACTIONATED ESTROGENS AND PITUITARY HORMONES IN ENDOMETRIAL CARCINOMA. Benjamin F, Deutsch S *Am J Obstet Gynecol* 126: 638-47, 15 Nov 76 (Eng) DL/77FEB470

INTERACTION OF CELL-MEMBRANE PROLACTIN RECEPTOR WITH ITS ANTIBODY. Shiu RP, Friesen HG *Biochem J* 157: 619-26, 1 Sep 76 (Eng) DL/77FEB501

EFFECTS OF HORMONES ON PROTEIN AND AMINO ACID METABOLISM IN MAMMARY-GLAND EXPLANTS OF MICE. Anderson LD, Rillema JA *Biochem J* 158: 355-9, 15 Aug 76 (Eng) DL/77FEB506

INFLUENCE OF CHRONIC THYROTROPIN-RELEASING HORMONE INJECTIONS ON SECRETION OF PROLACTIN, THYROTROPIN AND GROWTH HORMONE AND ON GROWTH RATE IN WETHER LAMBS. Davis SL, Hill DM, Ohlson DL, Jacobs JA *J Anim Sci* 42: 1244-50, May 76 (Eng) *DL/77FEB566

ACUTE AND CHRONIC ESTROGEN EFFECTS UPON SERUM SOMATOMEDIN ACTIVITY, GROWTH HORMONE, AND PROLACTIN IN MAN. Wiedemann E, Schwartz E, Frantz AG *J Clin Endocrinol Metab* 42: 942-52, May 76 (Eng) *DL/77FEB577

CONTROL OF ANTERIOR PITUITARY HORMONE SECRETION. HYPOTHALAMIC PEPTIDES AND THEIR INTERACTIONS. PP. 180-95. Grant G, Vale W, Brazeau P, Rivier J, Monahan M, Gilon C, Amoss M, Rivier C, Ling N, Burgus R, Guillemin R *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function.* Basel, Karger, 1974. WL 312 165r 1973. (Eng) [39] *DL/77FEB588

CONTROL OF GONADOTROPIN AND PROLACTIN SECRETION BY HYPOTHALAMIC RELEASING AND INHIBITING HORMONES. PP. 80-9. McCann SM, Cooper K, Harms PG, Libertun C, Negro-Vilar A, Ojeda SR, Orian R, Moss RL, Fawcett CP, Krulich L, Gilon C, Amoss M, Rivier C, Ling N, Burgus R, Guillemin R *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function.* Basel, Karger, 1974. WL 312 165r 1973. (Eng) *DL/77FEB589

ENDOCRINE AND EXTRA-ENDOCRINE STUDIES OF HYPOTHALAMIC HORMONES IN MAN. PP. 196-206. Kastin AJ, Schally AV, Ehrensing RH, Barbeau A *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function.* Basel, Karger, 1974. WL 312 165r 1973. (Eng) [44] *DL/77FEB590

CIRCADIAN PATTERN OF PROLACTIN AND GROWTH HORMONE LEVELS IN FEMALE RATS OF TWO STRAINS. Esber HJ, Kuo E, Bogden AE *Lab Anim Sci* 26: 186-9, Apr 76 (Eng) *DL/77FEB604

LETTER: EFFECT OF ALCOHOL ON ANTERIOR-PITUITARY SECRETION OF TROPIC HORMONES. Ylikahri RH, Huttunen MO, Harkonen M *Lancet* 1: 1353, 19 Jun 76 (Eng) *DL/77FEB608

HUMAN PITUITARY GROWTH HORMONE: RESTORATION OF FULL BIOLOGICAL ACTIVITY BY NONCOVALENT INTERACTION OF TWO FRAGMENTS OF THE HORMONE. Li CH, Bewley TA *Proc Natl Acad Sci USA* 73: 1476-9, May 76 (Eng) *DL/77FEB623

2.E.2 PITUITARY HORMONES, POSTERIOR

DESMOPRESSIN (DDAVP) IN DIABETES INSIPIDUS. Anonymous *Drug Ther Bull* 14: 81-2, 8 Oct 76 (Eng) DL/77FEB64

HUMOR MASTATIONS OF NEOPLASMS. Bartuska DG *Semin Oncol* 2: 405-9, Dec 75 (Eng) DL/77FEB401

FUNCTION OF THE HYPOTHALAMUS AND CLINICAL ASPECTS. Laszlo F *Ther Hung* 24: 43-9, 1976 (Eng) DL/77FEB411

2.E.3 PITUITARY HORMONES, INTERMEDIATE

SEROTONINERGIC CONTROL OF HUMAN GROWTH HORMONE SECRETION: THE ACTIONS OF L-DOPA AND 2-BROMO-ALPHA-ERGOCRYPTINE. PP. 222-35. Smythe GA, Compton PJ, Lazarus L, Ino Pecile A, Muller EE, ed. *Growth hormone and related peptides.* Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB189

METABOLIC REQUIREMENTS FOR MELANOPHORE-STIMULATING HORMONE (MSH) SECRETION. Hadley ME, Bower SA *Gen Comp Endocrinol* 28: 118-30, Feb 76 (Eng) *DL/77FEB558

ENDOCRINE AND EXTRA-ENDOCRINE STUDIES OF HYPOTHALAMIC HORMONES IN MAN. PP. 196-206. Kastin AJ, Schally AV, Ehrensing RH, Barbeau A *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function.* Basel, Karger, 1974. WL 312 165r 1973. (Eng) [44] *DL/77FEB590

MULTIPOTENT LIPOTROPIC HORMONES. IN SEARCH OF A PITUITARY CELL PRODUCING MULTIPOTENT LPH. Furth J, Chretien M, Lis M, Belanger A, Moy P, Grauman J *Arch Pathol* 99: 572-81, Nov 75 (Eng) *DL/77FEB710

2.E.4 PITUITARY HORMONE RELEASING FACTORS

[IN VITRO ASSAY FOR ACTH-RELEASING ACTIVITY USING ACTH RADIOIMMUNOASSAY: ACTH RELEASING ACTIVITIES BY VARIOUS DRUGS (AUTHORS TRANSL.)] Hashimoto K, Takahara J, Hosogi H, Ofuji N, Yasuhara T *Folia Endocrinol Jpn* 52: 114-24, 20 Feb 76 (Jpn) DL/77FEB82

A STUDY OF PITUITARY FUNCTION IN PATIENTS WITH IDIOPATHIC HEMOCHROMATOSIS. Walsh CH, Wright AD, Williams JW, Holder G *J Clin Endocrinol Metab* 43: 866-72, Oct 76 (Eng) DL/77FEB169

[LOW THYROTROPE HORMONE: A NEW ENTITY] Berthezene F, Paffoy JC, Escallier A, Bizollon C, Mornex R *Nouv Presse Med* 5: 2138-40, 9 Oct 76 (Fre) DL/77FEB343

FUNCTION OF THE HYPOTHALAMUS AND CLINICAL ASPECTS. Laszlo F *Ther Hung* 24: 43-9, 1976 (Eng) DL/77FEB411

INFLUENCE OF CHRONIC THYROTROPIN-RELEASING HORMONE INJECTIONS ON SECRETION OF PROLACTIN,

THYROTROPIN AND GROWTH HORMONE AND ON GROWTH RATE IN WETHER LAMBS. Davis SL, Hill DM, Ohlson DL, Jacobs JA *J Anim Sci* 42: 1244-50, May 76 (Eng) *DL/77FEB566

CONTROL OF ANTERIOR PITUITARY HORMONE SECRETION. HYPOTHALAMIC PEPTIDES AND THEIR INTERACTIONS. PP. 180-95. Grant G, Vale W, Brazeau P, Rivier J, Monahan M, Gilon C, Amoss M, Rivier C, Ling N, Burgus R, Guillemin R *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function.* Basel, Karger, 1974. WL 312 165r 1973. (Eng) [39] *DL/77FEB588

ENDOCRINE AND EXTRA-ENDOCRINE STUDIES OF HYPOTHALAMIC HORMONES IN MAN. PP. 196-206. Kastin AJ, Schally AV, Ehrensing RH, Barbeau A *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function.* Basel, Karger, 1974. WL 312 165r 1973. (Eng) [44] *DL/77FEB590

MECHANISM OF ACTION OF HYPOTHALAMIC RELEASING HORMONES. ROLE OF IONS IN THE RELEASE OF ADENOHYPOPHYSIAL HORMONES. PP. 207-15. Kraicer J *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function.* Basel, Karger, 1974. WL 312 165r 1973. (Eng) [18] *DL/77FEB591

LETTER: EFFECT OF ALCOHOL ON ANTERIOR-PITUITARY SECRETION OF TROPIC HORMONES. Ylikahri RH, Huttunen MO, Harkonen M *Lancet* 1: 1353, 19 Jun 76 (Eng) *DL/77FEB608

2.E.5 HYPOPHYSECTOMY

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltzer C, Leclercq-Meyer V, Mialhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77FEB86

EVIDENCE FOR A HYPOPHYSEAL FACTOR THAT STIMULATES INSULIN SECRETION BY THE PANCREAS (INSULOTROPINE). Chieri RA, Basabe JC, Farina JM *Horm Metab Res* 8: 329-32, Sep 76 (Eng) DL/77FEB137

EFFECT OF HYPOPHYSECTOMY AND INSULIN ON LIPOGENESIS IN COCKERELS. Kompiani IP, Gibson WR *Horm Metab Res* 8: 340-5, Sep 76 (Eng) DL/77FEB138

GROWTH HORMONE AND INSULIN SECRETION. PP. 116-26. Bennett LL, Curry DL, Ino Pecile A, Muller EE, ed. *Growth hormone and related peptides.* Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB180

REGULATION OF SOMATOMEDIN GENERATION. PP. 169-77. Daughaday WH, Phillips LS, Herington AC *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides.* Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB188

URETHANE-INDUCED HYPERGLYCEMIA IN RATS. Krzemien K, Lipowska-Zabawska L *Acta Physiol Pol* 27: 369-76, Jul-Aug 76 (Eng) DL/77FEB458

FACTORS CONTROLLING PROTEIN SYNTHESIS IN HEART MUSCLE. Hjalmarsson AC, Isaksson O, Kallfelt BJ *Adv Cardiol* 18: 57-80, 1976 (Eng) DL/77FEB463

EFFECTS OF HYPOPHYSECTOMY ON ALLOXAN-DIABETIC, ARTERIOSCLEROTIC, BREEDER VS. NON-ARTERIOSCLEROTIC, VIRGIN RATS. Wexler BC *Atherosclerosis* 25: 13-30, Oct 76 (Eng) DL/77FEB515

THE HORMONAL RESTORATION OF THE INTRINSIC CONTRACTILE FUNCTION OF THE ATROPHIC HEARTS OF HYPOPHYSECTOMIZED RATS. Korecky B, Taichman GC, Minelli R, Beznak M *Recent Adv Stud Cardiac Struct Metab* 1: 71-80, 1972 (Eng) *DL/77FEB651

INFLUENCE OF THE HYPOPHYSIS ON MITOCHONDRIAL PROTEIN SYNTHESIS. de Favelukes SS, de Tarlovsky MS, Bedetti CD, Stoppani AO *Acta Physiol Lat Am* 25: 107-11, 1975 (Eng) *DL/77FEB688

2.E.6 PITUITARY DISORDERS

STUDIES ON EXPERIMENTAL HYPOTROPHY IN THE RAT. III. PLASMA INSULIN AND GLUCAGON. Girard JR, Chanez C, Kervran A, Tordet-Caridroit C, Assan R *Biol Neonate* 29: 262-6, 1976 (Eng) DL/77FEB13

DESMOPRESSIN (DDAVP) IN DIABETES INSIPIDUS. Anonymous *Drug Ther Bull* 14: 81-2, 8 Oct 76 (Eng) DL/77FEB64

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerasi E *Diabetes Metab* 1: 51-6, Mar 75 (Eng) DL/77FEB88

STUDIES OF HUMAN DIPLOID FIBROBLAST GROWTH. I. RESPONSES OF NORMAL AND HYPOPITUITARY CELLS TO FIBROBLAST GROWTH FACTOR, INSULIN, AND SERUM. Jones KL, Addison J *J Clin Endocrinol Metab* 43: 721-9, Oct 76 (Eng) DL/77FEB166

HUMAN GROWTH HORMONE CHANGES WITH AGE. PP. 261-70. Bazzarre TL, Johanson AJ, Huseman CA, Varma MM, Blizzard RM *Ino Picile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB182*

NEUROENDOCRINE CONTROL OF GROWTH HORMONE SECRETION: EXPERIMENTAL AND CLINICAL STUDIES. PP. 236-51. Liuzzi A, Panerai AE, Chiodini PG, Secchi C, Cocchi D, Botalla L, Silvestrini F, Muller EE *Ino Picile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB185*

PLASMA SOMATOMEDIN. CLINICAL OBSERVATIONS. PP. 271-85. Van den Brande JL *Ino Picile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) [81] DL/77FEB186*

[LOW THYROTROPE HORMONE: A NEW ENTITY] Berthezene F, Paffoy JC, Escallier A, Bizillon C, Morneix R *Nouv Presse Med* 5: 2138-40, 9 Oct 76 (Fre) DL/77FEB343

[RESULTS OF TREATMENT OF DIABETES IN SIPIDUS WITH PFIZERS DIABINESE (AUTHORS TRANSL.)] Chęcinska Z, Galazka A, Gruszka S, Stepień M, Milewicz A, Szklarz E *Przegl Lek* 33: 697-9, 1976 (Pol) DL/77FEB370

FUNCTION OF THE HYPOTHALAMUS AND CLINICAL ASPECTS. Laszlo F *Ther Hung* 24: 43-9, 1976 (Eng) DL/77FEB411

2.F GONADS

2.F.1 OVARY

A MICROSURGICAL TECHNIQUE FOR ORTHOTOPIC OVARIAN TRANSPLANTA-

TION IN THE CHINESE HAMSTER. Schmidt FL, Miller RL, Peterson T, Soret MG *Surgery* 80: 595-600, Nov 76 (Eng) DL/77FEB409

2.F.2 TESTIS

2.F.3 SEX HORMONES

THERAPY TO CONTROL CORONARY ATHEROSCLEROSIS AND ITS COMPLICATIONS. Gorlin R *Major Probl Intern Med* 11: 281-92, 1976 (Eng) DL/77FEB237

PHYSICAL ACTIVITY AND HORMONES. Adlercreutz H, Harkonen M, Kuoppasalmi K, Kosunen K, Naveri H, Rehnun S *Adv Cardiol* 18: 144-57, 1976 (Eng) DL/77FEB461

2.F.3.1 ANDROGENS

EFFECT OF ETHYLOESTRENOL ON FIBRINOLYSIS IN THE VESSEL WALL. Hedner U, Nilsson IM, Isacson S *Br Med J* 2: 729-31, 25 Sep 76 (Eng) DL/77FEB24

LUTEINIZING RELEASE HORMONE TESTS IN IMPOTENT DIABETIC MALES. Wright AD, London DR, Holder G, Williams JW, Rudd BT *Diabetes* 25: 975-7, Oct 76 (Eng) DL/77FEB106

EFFECT OF PHENFORMIN AND ETHYLOESTRENOL ON BLOOD FIBRINOLYTIC ACTIVITY ON RABBITS MAINTAINED ON HIGH CHOLESTEROL DIET. Sharma KK, Chowdhury NK, Sharma AL *Indian J Med Res* 64: 915-22, Jun 76 (Eng) DL/77FEB149

A STUDY OF PITUITARY FUNCTION IN PATIENTS WITH IDIOPATHIC HEMOCHROMATOSIS. Walsh CH, Wright AD, Williams JW, Holder G *J Clin Endocrinol Metab* 43: 866-72, Oct 76 (Eng) DL/77FEB169

HUMAN GROWTH HORMONE CHANGES WITH AGE. PP. 261-70. Bazzarre TL, Johanson AJ, Huseman CA, Varma MM, Blizzard RM *Ino Picile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB182*

MALIGNANT ATROPHIC PAPULOSIS OF DEPOS. REPORT OF A PATIENT WHO FAILED TO RESPOND TO FIBRINOLYTIC THERAPY. Howdsen SM, Hodge SJ, Herndon JH, Freeman RG *Arch Dermatol* 112: 1582-8, Nov 76 (Eng) [61] DL/77FEB490

STUDIES ON MEMBRANE-BOUND RENIN IN THE MOUSE AND RAT. Wilson CM, Ward PE, Erdos EG, Geese A *Circ Res* 38: 95-8, Jun 76 (Eng) *DL/77FEB541

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL, TESTOSTERONE AND GROWTH HORMONE LEVELS IN WEIGHT LIFTERS] Skierska E, Ustupka J, Biczowa B, Lukaszewska J *Endokrynol Pol* 27: 159-65, Mar-Apr 76 (Pol) *DL/77FEB550

MEAN 24-HOUR GROWTH HORMONE AND TESTOSTERONE CONCENTRATIONS IN RELATION TO PUBERTAL GROWTH SPURT IN BOYS WITH NORMAL OR DELAYED PUBERTY. Butenandt O, Eder R, Wohlfarth K, Bidlingmaier F, Knorr D *Eur J Pediatr* 122: 85-92, 4 May 76 (Eng) *DL/77FEB551

METABOLIC CHANGES IN INFARCTED AND NON-INFARCTED MYOCARDIUM DURING THE POSTINFARCTION PERIOD. Gudbjarnason S, Ravens KG, Mathes P *Recent Adv Stud Cardiac Struct Metab* 1: 439-46, 1972 (Eng) *DL/77FEB644

2.F.3.2 ESTROGENS

EFFECT OF ETHYLOESTRENOL ON FIBRINOLYSIS IN THE VESSEL WALL. Hedner U, Nilsson IM, Isacson S *Br Med J* 2: 729-31, 25 Sep 76 (Eng) DL/77FEB24

GLUCOSE UPTAKE BY NORMAL HUMAN BREAST TISSUE IN ORGAN CULTURE. INFLUENCE OF INSULIN AND OTHER ADDITIVES. van Bogaert LJ *Cell Tissue Res* 171: 535-41, 1 Sep 76 (Eng) DL/77FEB40

LUTEINIZING RELEASE HORMONE TESTS IN IMPOTENT DIABETIC MALES. Wright AD, London DR, Holder G, Williams JW, Rudd BT *Diabetes* 25: 975-7, Oct 76 (Eng) DL/77FEB106

PLASMA CONCENTRATIONS OF UNCONJUGATED ESTRONE, ESTRADIOL-17BETA AND ESTRIL, AND HCS THROUGHOUT PREGNANCY IN DIABETICS AND GESTATIONAL DIABETICS. De Hertogh R, Thomas K, Hoet JJ, Vanderheyden I *Diabetologia* 12: 455-61, Oct 76 (Eng) DL/77FEB114

EFFECT OF PHENFORMIN AND ETHYLOESTRENOL ON BLOOD FIBRINOLYTIC ACTIVITY ON RABBITS MAINTAINED ON HIGH CHOLESTEROL DIET. Sharma KK, Chowdhury NK, Sharma AL *Indian J Med Res* 64: 915-22, Jun 76 (Eng) DL/77FEB149

[HIGH RISK FACTORS OF BREAST CANCER] Hardy A, Loriaux C *J Gynecol Obstet Biol Reprod (Paris)* 5: 657-73, Jul - Aug 76 (Fre) [89] DL/77FEB177

GLUCOSE TOLERANCE AND HORMONE REPLACEMENT THERAPY. A PRELIMINARY STUDY. Sturdee DW, Gustafson RC, Moore B *Postgrad Med J* 52 SUPPL 6: 52-4, 1976 (Eng) DL/77FEB352

[HORMONAL DISORDERS IN A PATIENT WITH MORGAGNI-MOREL-STEWART SYNDROME] Hrycek A, Kubek A, Grabski J, Kalina Z *Wiad Lek* 29: 1673-6, 15 Sep 76 (Pol) DL/77FEB432

PLASMA LEVELS OF FRACTIONATED ESTROGENS AND PITUITARY HORMONES IN ENDOMETRIAL CARCINOMA. Benjamin F, Deutsch S *Am J Obstet Gynecol* 126: 638-47, 15 Nov 76 (Eng) DL/77FEB470

MALIGNANT ATROPHIC PAPULOSIS OF DEPOS. REPORT OF A PATIENT WHO FAILED TO RESPOND TO FIBRINOLYTIC THERAPY. Howdsen SM, Hodge SJ, Herndon JH, Freeman RG *Arch Dermatol* 112: 1582-8, Nov 76 (Eng) [61] DL/77FEB490

ACUTE AND CHRONIC ESTROGEN EFFECTS UPON SERUM SOMATOMEDIN ACTIVITY, GROWTH HORMONE, AND PROLACTIN IN MAN. Wiedemann E, Schwartz E, Frantz AG *J Clin Endocrinol Metab* 42: 942-52, May 76 (Eng) *DL/77FEB577

2.F.3.3 CORPUS LUTEUM AND PROGESTATIONAL HORMONES

2.F.3.3.1 CORPUS LUTEUM HORMONES

2.F.3.3.2 PROGESTATIONAL HORMONES

POSTMATURITY IN THE RAT: IMPAIRMENT OF INSULIN, GLUCAGON, AND GLYCOGEN STORES. Portha B, Rosselin G, Picon L *Diabetologia* 12: 429-36, Oct 76 (Eng) DL/77FEB110

THE INFLUENCE OF STREPTOZOTOCIN DIABETES ON ADRENAL FUNCTION IN MALE RATS. De Nicola AF, Fridman O, Del Castillo EJ, Foglia VG *Horm Metab Res* 8: 388-92, Sep 76 (Eng) DL/77FEB145

2.G OTHER ENDOCRINES AND RELATED TERMS

GLUCOSE TOLERANCE AND HORMONE REPLACEMENT THERAPY. A PRELIMINARY STUDY. Sturdee DW, Gustafson RC, Moore B *Postgrad Med J* 52 SUPPL 6: 52-4, 1976 (Eng) DL/77FEB352

2.F.3.4 CONTRACEPTIVES, ORAL

MYOCARDIAL INFARCTION IN YOUNGER WOMEN. ASSOCIATED CLINICAL FEATURES AND RELATIONSHIP TO USE OF ORAL CONTRACEPTIVE DRUGS. Arthes FG, Masi AT *Chest* 70: 574-83, Nov 76 (Eng) DL/77FEB60

SERUM LIPID CHANGES DURING CONTRACEPTIVE ADMINISTRATION IN OBESE WOMEN: RELATION TO SERUM INSULIN LEVELS. Gershberg H, Hulise M, Galler M *J Clin Endocrinol Metab* 43: 861-5, Oct 76 (Eng) DL/77FEB168

2.F.4 GONADAL DISORDERS

A STUDY OF PITUITARY FUNCTION IN PATIENTS WITH IDIOPATHIC HEMOCHROMATOSIS. Walsh CH, Wright AD, Williams JW, Holder G *J Clin Endocrinol Metab* 43: 866-72, Oct 76 (Eng) DL/77FEB169

2.G OTHER ENDOCRINES AND RELATED TERMS

2.G.1 ENDOCRINE GLANDS

THE ENDOCRINE SYSTEM IN PATIENTS WITH ACUTE RENAL INSUFFICIENCY. Kokot F, Kuska J *Kidney Int [Suppl]* 10: 826-31, Oct 76 (Eng) DL/77FEB223

[HYPOGLYCAEMIA (AUTHORS TRANSL)] Uebersax R, Jeanmonod D, Meyrat CA *Praxis* 65: 504-9, 27 Apr 76 (Fre) DL/77FEB354

[ENDOCRINE CELLS PRODUCING POLYPEPTIDES AND BIOGENIC AMINES] Bussolati G *Riv Istochim Norm Patol* 18: 95-118, 1974 (Ita) *DL/77FEB679

2.G.2 HORMONES

EFFECTS OF IODINATION OF TYROSYL RESIDUES ON THE BINDING AND ACTION OF GLUCAGON AT ITS RECEPTOR. Lin MC, Nicosia S, Rodbell M *Biochemistry* 15: 4537-40, 5 Oct 76 (Eng) DL/77FEB9

PRESENT PARADOXES IN THE ENVIRONMENTAL CONTROL OF HEPATIC PROLIFERATION. Leffert HL, Koch KS, Rubalcava B *Cancer Res* 36: 4250-5, Nov 76 (Eng) DL/77FEB38

CELL SURFACE RECEPTORS FOR INSULIN AND HUMAN GROWTH HORMONE. EFFECT OF MICROTUBULE AND MICROFILAMENT MODIFIERS. Van Obberghen E, De Meyts P, Roth J *J Biol Chem* 251: 6844-51, 10 Nov 76 (Eng) DL/77FEB161

MAMMOTROPIC HORMONES IN RUMINANTS. PP. 422-32. Forsyth IA, Hart IC *Ino Picelle A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) [91] DL/77FEB184*

PLASMA SOMATOMEDIN. CLINICAL OBSERVATIONS. PP. 271-85. Van den Brande JL *Ino Picelle A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) [81] DL/77FEB186*

THE ENDOCRINE SYSTEM IN PATIENTS WITH ACUTE RENAL INSUFFICIENCY. Kokot F, Kuska J *Kidney Int [Suppl]* 10: 826-31, Oct 76 (Eng) DL/77FEB223

BIOLOGIC ACTIVITY AND CONFORMATIONAL PROPERTIES OF GLUCAGON AND GLUCAGON ANALOGS. Epand RM, Cote TE, Hoa DH, Rosselin G, Schreier S *Metabolism* 25: 1317-8, Nov 76 (Eng) DL/77FEB264

SEMISYNTHETIC GLUCAGON DERIVATIVES FOR STRUCTURE-FUNCTION STUDIES. Hruby VJ, Wright DE, Lin MC, Rodbell M *Metabolism* 25: 1323-5, Nov 76 (Eng) DL/77FEB266

HORMONAL REGULATION OF THE AFFINITY AND CONCENTRATION OF HORMONE RECEPTORS IN TARGET CELLS. DeMeys P, Kahn CR, Roth J, Bar RS *Metabolism* 25: 1365-70, Nov 76 (Eng) DL/77FEB275

CARBOHYDRATE TOLERANCE AND OBESITY. Breidahl HD *Med J Aust* 1: 9-10, 19 Jun 76 (Eng) DL/77FEB319

PHYSIOLOGY AND PATHOPHYSIOLOGY OF GLUCAGON. Unger RH, Orci L *Physiol Rev* 56: 778-826, Oct 76 (Eng) [164] DL/77FEB365

HORMONAL RESPONSES AND THEIR EFFECT ON METABOLISM. Wilmore DW *Surg Clin North Am* 56: 999-1018, Oct 76 (Eng) DL/77FEB407

[RELATIONSHIP BETWEEN HORMONE CONCENTRATION IN PERIPHERAL BLOOD IN HYPERTENSION, ARTERIOSCLEROSIS AND OBESITY] Kokina LP, Lyskova MN, Tkacheva GA, Gabunia RI, Syzgantseva LM *Ter Arkh* 48: 81-4, 1976 (Rus) DL/77FEB410

A STUDY OF INSULIN RECEPTORS IN HUMAN MONONUCLEAR LEUCOCYTES. Pedersen O, Beck-Nielsen H *Acta Endocrinol (Kbh)* 83: 556-64, Nov 76 (Eng) DL/77FEB455

THE INSULIN RECEPTOR IN NORMAL AND OBESE PERSONS. Beck-Nielsen H, Pedersen O, Bagger JP, Sorensen NS *Acta Endocrinol (Kbh)* 83: 565-75, Nov 76 (Eng) DL/77FEB456

PHYSICAL ACTIVITY AND HORMONES. Adlercreutz H, Harkonen M, Kuoppasalmi K, Kosunen K, Naveri H, Rehnun S *Adv Cardiol* 18: 144-57, 1976 (Eng) DL/77FEB461

FACTORS CONTROLLING PROTEIN SYNTHESIS IN HEART MUSCLE. Hjalmarson AC, Isaksson O, Kallfelt BJ *Adv Cardiol* 18: 57-80, 1976 (Eng) DL/77FEB463

INTERACTION OF CELL-MEMBRANE PROLACTIN RECEPTOR WITH ITS ANTIBODY. Shiu RP, Friesen HG *Biochem J* 157: 619-26, 1 Sep 76 (Eng) DL/77FEB501

CELL SURFACE RECEPTORS. A BIOLOGICAL PERSPECTIVE. PP. 1-32. Greaves MF *Ino Cuatrecasas P, Greaves MF, ed. Receptors and recognition. Series A. London, Chapman & Hall, 1976. W1 RE107m v.1 1976. (Eng) [83] *DL/77FEB587*

CONTROL OF ANTERIOR PITUITARY HORMONE SECRETION. HYPOTHALAMIC PEPTIDES AND THEIR INTERACTIONS. PP. 180-95. Grant G, Vale W, Brazeau P, Rivier J, Monahan M, Gilon C, Amoss M, Rivier C, Ling N, Burgess R, Guillemain R *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function. Basel, Karger, 1974. WL 312 165r 1973. (Eng) [39] *DL/77FEB588*

[ADIPOSE-TISSUE ADENYL CYCLASE] Kather H, Simon B *Med Klin* 71: 739-44, 30 Apr 76 (Ger) [63] *DL/77FEB610

2.G.2.1 GASTROINTESTINAL HORMONES

EFFECT OF SECRETIN ON PACEMAKER ACTIVITY AND CONTRACTILITY IN THE ISOLATED BLOOD-PERFUSED ATRIUM OF THE DOG. Chiba S *Clin Exp Pharmacol Physiol* 3: 167-72, Mar-Apr 76 (Eng) DL/77FEB45

KINETICS OF INSULIN SECRETION IN CHRONIC PANCREATITIS AND MILD MATURITY ONSET DIABETES. (EVIDENCE FOR GUT HORMONE ACTION BEYOND GLUCORECEPTOR AND CYCLIC ADENOSINE MONOPHOSPHATE MEDIATED INSULIN RELEASE). Botha JL, Vinik AI, Blake KC, Jackson WP *Eur J Clin Invest* 6: 365-72, 10 Sep 76 (Eng) DL/77FEB72

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteceuvre M, Buneaux JJ *Diabete Metab* 1: 101-11, Jun 75 (Eng) DL/77FEB91

GASTRIC INHIBITORY POLYPEPTIDE (GIP) IN MATURITY-ONSET DIABETES MELLITUS. Crockett SE, Mazzaferri EL, Cataland S *Diabetes* 25: 931-5, Oct 76 (Eng) DL/77FEB99

EXOCRINE PANCREATIC FUNCTION IN JUVENILE-ONSET DIABETES MELLITUS. Frier BM, Saunders JH, Wormsley KG, Bouchier IA *Gut* 17: 685-91, Sep 76 (Eng) DL/77FEB133

PROGRESSIVE ENHANCEMENT IN THE SECRETORY FUNCTIONS OF THE DIGESTIVE SYSTEM OF THE RAT IN THE COURSE OF COLD ACCLIMATION. Harada E, Kanno T *J Physiol (Lond)* 260: 629-45, Sep 76 (Eng) DL/77FEB211

THE POTENTIATING INFLUENCES OF INSULIN ON PANCREOZYMIN-INDUCED HYPERPOLARIZATION AND AMYLASE RELEASE IN THE PANCREATIC ACINAR CELL. Kanno T, Saito A *J Physiol (Lond)* 261: 505-21, Oct 76 (Eng) DL/77FEB213

INHIBITION OF ACTIONS OF GLUCAGON IN ADIPOCYTES BY GASTRIC INHIBITORY POLYPEPTIDE. Dupre J, Greenidge N, McDonald TJ, Ross SA, Rubinstein D *Metabolism* 25: 1197-9, Nov 76 (Eng) DL/77FEB259

THE RELATION OF STRUCTURE TO STORAGE AND RECEPTOR BINDING OF GLUCAGON. Blundell TL, Dockerill S, Sasaki K, Tickle IJ, Wood SP *Metabolism* 25: 1331-6, Nov 76 (Eng) DL/77FEB268

GLUCAGON AND GASTRIN RELEASE BY THE ISOLATED PERFUSED DOG STOMACH IN RESPONSE TO ARGININE. Lefebvre PJ, Luyckx AS, Brassine AH, Nizet AH *Metabolism* 25: 1447-9, Nov 76 (Eng) DL/77FEB294

GUT HORMONES AND THE ALPHA CELL. Bloom SR, Iversen J *Metabolism* 25: 1457-8, Nov 76 (Eng) DL/77FEB297

EFFECTS OF SUBSTANCE-P [PROCEEDINGS]. Sasaki H *Metabolism* 25: 1463, Nov 76 (Eng) DL/77FEB299

COMPARISON STUDIES OF NEUROTENSIN AND XENOPSIN UPON PANCREATIC SECRETION IN THE DOG [PROCEEDINGS]. Ishida T, Kawamura K, Goto A, Nishina Y, Takahara J *Metabolism* 25: 1467, Nov 76 (Eng) DL/77FEB301

[PANCREATIC SECRETION IN RATS. A COMPARATIVE STUDY OF BASAL AND STIMULATED SECRETIONS IN ACUTE AND CHRONIC FISTULA CONDITIONS (AUTHORS TRANSL)]. Chariot J, Roze C, de La Tour J, Souchard M, Vaile C, Debray C *Pathol Biol (Paris)* 24: 457-61, Sep 76 (Fre) DL/77FEB336

RAT GASTRIC MUCOSAL OXYGEN TENSION, ULCER INDEX, PLASMA GASTRIN AND

2.G OTHER ENDOCRINES AND RELATED TERMS

GLUCAGON FOLLOWING RESTRAINT STRESS. INFLUENCE OF VAGOTOMY, SPLANCHNICOTOMY AND EXOGENOUS SECRETIN. Schwille PO, Schellerer W, Steiner H, Reitzenstein M *Res Exp Med (Berl)* 167: 149-58, 15 May 76 (Eng) DL/77FEB375

EFFECT OF THE HISTAMINE H2-RECEPTOR ANTAGONIST, CIMETIDINE, ON GASTRIC SECRETION AND SERUM GASTRIN DURING INSULIN INFUSION IN MAN. Carter DC, Forrest JA, Logan RA, Ansell I, Lidgard G, Heading RC, Shearman DJ *Scand J Gastroenterol* 11: 565-70, 1976 (Eng) DL/77FEB393

HISTOLOGIC CHARACTERISTICS OF INSULINOMAS AND GASTRINOMAS. VALUE OF ARGYROPHILIA, METACHROMASIA, IMMUNOHISTOLOGY, AND ELECTRON MICROSCOPY FOR THE IDENTIFICATION OF GASTROINTESTINAL AND PANCREATIC ENDOCRINE CELLS AND THEIR TUMORS. Woodtli W, Hedinger C *Virchows Arch [Pathol Anat]* 371: 331-50, 7 Oct 76 (Eng) DL/77FEB425

[DIAGNOSTIC METHODS IN THE ASSESSMENT OF GASTROINTESTINAL FUNCTION (AUTHORS TRANSL)] Pointer H *Wien Klin Wochenschr* 88: 609-18, 15 Oct 76 (Ger) [48] DL/77FEB433

TUMORS OF THE ISLETS OF LANGERHANS. Zollinger RM, Mazzaferri EL *Adv Surg* 10: 137-76, 1976 (Eng) [73] DL/77FEB464

EFFECTS OF GROWTH HORMONE--RELEASE INHIBITING HORMONE (GH--RIH OR SOMATOSTATIN) ON SECRETORY PROCESSES IN STOMACH AND PANCREAS. PP. 407-12. Albinus M, Case RM, Reed JD, Shaw B, Smith PA, Gomez-Pan A, Hall R, Besser GM, Schally AV *In: Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract. Baltimore, Univ Park Press, 1976. WI 102 5859 1975. (Eng) *DL/77FEB586*

EFFECT OF STREPTOZOICIN ON GASTRIN RELEASE. Stadil F, Stage JG *Scand J Gastroenterol [Suppl]* 11: 67-70, 1976 (Eng) *DL/77FEB680

EFFECTS OF SOMATOSTATIN ON PANCREATIC EXOCRINE FUNCTION. INTERACTION WITH SECRETIN. Deschodt-Lanckman M, Robberecht P, Pector JC, Christophe J *Arch Int Physiol Biochim* 83: 960-1, Dec 75 (Eng) *DL/77FEB705

2.G.2.2 PROSTAGLANDINS

[IN VITRO ASSAY FOR ACTH-RELEASING ACTIVITY USING ACTH RADIOIMMUNOASSAY: ACTH RELEASING ACTIVITIES BY VARIOUS DRUGS (AUTHORS TRANSL)] Hashimoto K, Takahara J, Hosogi H, Ofuji N, Yasuhara T *Folia Endocrinol Jpn* 52: 114-24, 20 Feb 76 (Jpn) DL/77FEB82

CONTROL OF GONADOTROPIN AND PROLACTIN SECRETION BY HYPOTHALAMIC RELEASING AND INHIBITING HORMONES. PP. 80-9. McCann SM, Cooper K, Harms PG, Libertun C, Negro-Vilar A, Ojeda SR, Orias R, Moss RL, Fawcett CP, Krulich L, Gilon C, Amoss M, Rivier C, Ling N, Burgess R, Guillemin R *In: Lederis K, Cooper KE, ed. Recent studies of hypothalamic function. Basel, Karger, 1974. WL 312 165r 1973. (Eng) *DL/77FEB589*

2.G.2.3 HORMONES, ECTOPIC

HUMOR MANIFESTATIONS OF NEOPLASMS. Bartuska DG *Semin Oncol* 2: 405-9, Dec 75 (Eng) DL/77FEB401

HYPOGLYCEMIA: THE UNDISCLOSED. Blonde L, Riddick FA Jr *South Med J* 69: 1261-5, Oct 76 (Eng) DL/77FEB402

TUMORS OF THE ISLETS OF LANGERHANS. Zollinger RM, Mazzaferri EL *Adv Surg* 10: 137-76, 1976 (Eng) [73] DL/77FEB464

2.G.2.4 PLACENTAL HORMONES

2.G.2.5 RELAXIN

2.G.2.6 JUVENILE HORMONES

2.G.3 CHROMAFFIN SYSTEM

[THE ENDOCRINE CELLS OF THE GASTROINTESTINAL EPITHELIUM AND THE METABOLISM OF BIOGENIC AMINES IN THE GASTROINTESTINAL TRACT (AUTHORS TRANSL)] Grube D *Prog Histochem Cytochem* 8: 1-128, 1976 (Ger) [968] DL/77FEB369

2.G.4 PINEAL BODY

PREMATURE ERUPTION AND MACRODON-TIA ASSOCIATED WITH INSULIN RESISTANT DIABETES AND PINEAL HYPERPLASIA. REPORT OF TWO CASES. Holmes J, Tanner MS *Br Dent J* 141: 280-4, 2 Nov 76 (Eng) DL/77FEB4

2.G.5 PITUITARY-ADRENAL SYSTEM

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltzer C, Leclercq-Meyer V, Mialhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77FEB86

[FUNCTIONAL ORGANIZATION OF THE HYPOTHALAMUS IN REGULATION OF THE HYPOPHYSAL-ADRENOCORTICAL SYSTEM] Filaretov AA, Vasilevskaia LV *Dokl Akad Nauk SSSR* 227: 1018-20, 1976 (Rus) *DL/77FEB546

[ROLE OF DIFFERENT REGIONS OF THE HYPOTHALAMUS IN REGULATING THE HYPOPHYSAL-ADRENAL CORTEX SYSTEM IN RATS] Konovalova LK *Probl Endokrinol (Mosk)* 22: 58-62, 1976 (Rus) *DL/77FEB622

2.G.6 SECRETORY RATE

PANCREATIC BETA CELL REPLICATION: EFFECTS OF HEXOSE SUGARS. King DL, Chick WL *Endocrinology* 99: 1003-9, OCT 76 (Eng) DL/77FEB68

POTENTIATION OF GLUCOSE-INDUCED INSULIN RELEASE BY GLUCOSE IN THE ISOLATED PANCREAS OF FED AND FASTED RATS. Efendic S, Cerasi E, Luft R, Gladnikoff G *Diabetes* 25: 949-54, Oct 76 (Eng) DL/77FEB102

[PANCREATIC SECRETION IN RATS. A COMPARATIVE STUDY OF BASAL AND STIMULATED SECRETIONS IN ACUTE AND CHRONIC FISTULA CONDITIONS (AUTHORS TRANSL)] Chariot J, Roze C, de La Tour J, Souchart M, Vaillat C, Debray C *Pathol Biol (Paris)* 24: 457-61, Sep 76 (Fre) DL/77FEB336

[LOW THYROTROPE HORMONE: A NEW ENTITY] Berthezene F, Paffoy JC, Escallier A, Bizollon C, Mornex R *Nouv Presse Med* 5: 2138-40, 9 Oct 76 (Fre) DL/77FEB343

EFFECT OF THE HISTAMINE H2-RECEPTOR ANTAGONIST, CIMETIDINE, ON GASTRIC SECRETION AND SERUM GASTRIN DURING INSULIN INFUSION IN MAN. Carter DC, Forrest JA, Logan RA, Ansell I, Lidgard G, Heading RC, Shearman DJ *Scand J Gastroenterol* 11: 565-70, 1976 (Eng) DL/77FEB393

STUDIES WITH THE AUTOTRANSPLANTED OVINE PANCREAS: GLUCAGON AND INSULIN SECRETION. Arcus AC, Ellis MJ, Kirk RD, Beaven DW, Donald RA, Hart DS, Holland GW, Redekopp C *Aust J Biol Sci* 29: 223-36, Jul 76 (Eng) DL/77FEB496

AR
EF
M
4
AR
AU
S
AR
SO
S
T
D
AR
IN
T
M
C
AR
EF
T
S
T
D
AC
AC
C
A
S
J
C
AC
GL
S
T
A
C
N
D
AC
FA
C
M
R
AC
[AM
C
T
R
S
L
D

Diabetes Literature—Keyword Index

ABSORPTION

EFFECTS OF DIABETES ON INTESTINAL MAGNESIUM ABSORPTION IN THE RAT. Miller DL, Schedl HP *Am J Physiol* 231: 1039-42, Oct 76 (Eng) DL/77FEB473

ABSORPTION, ETHANOL

AUGMENTATION OF ETHANOL ABSORPTION BY MONO- AND DISACCHARIDES. Broitman SA, Gottlieb LS, Vitale JJ *Gastroenterology* 70: 1101-7, Jun 76 (Eng) *DL/77FEB557

ABSORPTION, GLUCOSE

SOMATOSTATIN AND DIABETES: SUPPRESSION OF GLUCOSE ABSORPTION RATHER THAN STIMULATION OF GLUCOSE DISPOSAL. Felig P, Wahren J *Metabolism* 25: 1509-10, Nov 76 (Eng) DL/77FEB311

ABSORPTION, INTESTINAL

INTESTINAL ABSORPTION CHARACTERISTICS OF BUFORMIN AND PHENFORMIN IN RATS. Kojima S, Tanaka R, Hamada C *Chem Pharm Bull (Tokyo)* 24: 1555-60, Jul 76 (Eng) DL/77FEB42

ABSORPTIVE FUNCTION

EFFECT OF CHRONIC GLUCAGON-ADMINISTRATION ON THE DIGESTIVE AND ABSORPTIVE FUNCTION OF RAT SMALL INTESTINE IN VIVO. Caspary WF, Lucke H *Res Exp Med (Berl)* 167: 1-13, 27 Feb 76 (Eng) DL/77FEB373

ACETATE KINASE

ACETATE KINASE FROM VEILLONELLA ALCALESCENS. REGULATION OF ENZYME ACTIVITY BY SUCCINATE AND SUBSTRATES. Bowman CM, Valdez RO, Nishimura JS *J Biol Chem* 251: 3117-21, 25 May 76 (Eng) *DL/77FEB573

ACETOACETATE

GLUCOSE METABOLISM IN PERFUSED SKELETAL MUSCLE. EFFECTS OF STARVATION, DIABETES, FATTY ACIDS, ACETOACETATE, INSULIN AND EXERCISE ON GLUCOSE UPTAKE AND DISPOSITION. Berger M, Hagg SA, Goodman MN, Ruderman NB *Biochem J* 158: 191-202, 15 Aug 76 (Eng) DL/77FEB504

ACETOBACTER XYLINUM

FACTORS AFFECTING THE ACTIVITY OF CITRATE SYNTHASE OF ACETOBACTER XYLINUM AND ITS POSSIBLE REGULATORY ROLE. Swissa M, Benzman M *Biochem J* 153: 173-9, 1 Feb 76 (Eng) *DL/77FEB713

ACETONE

AMOUNT OF ACETONE AND ETHYL ALCOHOL IN THE BLOOD AND URINE OF PATIENTS WITH DIABETES MELLITUS AND ISCHEMIC HEART DISEASE. Kamyshova EP, Sorochkina RM, Kapatsinskaya LK, Romanova LN, Danilova MI *Sov Med* 147-8, Apr 76 (Rus) DL/77FEB403

ACID, NICOTINIC

EFFECT OF SOMATOSTATIN ON METABOLIC AND HORMONAL CHANGES INDUCED BY NICOTINIC ACID IN INSULIN-DEPENDENT DIABETICS. Luyckx AS, Lefebvre PJ *Diabetologia* 12: 447-53, Oct 76 (Eng) DL/77FEB113

ACIDOPHILIC ADENOMA

[PATHOGENESIS OF SPONTANEOUS DIABETES MELLITUS IN THE CAT. II. ACIDOPHILIC ADENOMA OF THE PITUITARY GLAND AND DIABETES MELLITUS IN 2 CASES] Gemhardt C, Loppnow H *Berl Munch Tierarztl Wochenschr* 89: 336-40, 1 Sep 76 (Ger) DL/77FEB497

ACIDOSIS

CAN PHENFORMIN-INDUCED LACTIC ACIDOSIS BE PREVENTED? Gale EA, Tattersall RB *Br Med J* 2: 972-5, 23 Oct 76 (Eng) DL/77FEB32

ACIDOSIS, LACTIC

[LACTIC ACIDOSIS IN DIABETES MELLITUS (AUTHORS TRANSL.) Buess HJ, Mihatsch MJ, Wunderlich P, Berger W *Praxis* 65: 406-13, 6 Apr 76 (Ger) DL/77FEB353

ACIDURIA, METHYLMALONIC

METHYLMALONIC ACIDURIA AND HYPOGLYCEMIA [LETTER]. Garnica A, Desrosiers P, Sargent T *N Engl J Med* 295: 1136-7, 11 Nov 76 (Eng) DL/77FEB323

ACINAR CELL, PANCREATIC

THE POTENTIATING INFLUENCES OF INSULIN ON PANCREOZYMIN-INDUCED HYPERPOLARIZATION AND AMYLASE RELEASE IN THE PANCREATIC ACINAR CELL. Kanno T, Saito A *J Physiol (Lond)* 261: 505-21, Oct 76 (Eng) DL/77FEB213

ACTH

SEE ADRENOCORTICOTROPIC HORMONE

ACTINOMYCIN D

INDUCTION OF ORNITHINE DECARBOXYLASE IN CULTURED MOUSE L CELLS. I. EFFECTS OF CELLULAR GROWTH, HORMONES, AND ACTINOMYCIN D. Yamasaki Y, Ichihara A *J Biochem (Tokyo)* 80: 557-62, Sep 76 (Eng) DL/77FEB157

ACTION POTENTIAL

THE ROLE OF LINOLEIC ACID IN HYPOXIA-INDUCED CHANGES OF THE ACTION POTENTIALS AND THE FORCE OF CONTRACTION OF ISOLATED PAPILLARY MUSCLES OF THE GUINEA PIG. Ravens KG, Ravens U *Recent Adv Stud Cardiac Struct Metab* 7: 289-95, 1975 (Eng) *DL/77FEB671

ACTIVE TRANSPORT

A MODEL FOR CONFORMATIONAL COUPLING OF MEMBRANE POTENTIAL AND PROTON TRANSLLOCATION TO ATP SYNTHESIS AND TO ACTIVE TRANSPORT. Boyer PD *FEBS Lett* 58: 1-6, 15 Oct 75 (Eng) *DL/77FEB555

AN EXPERIMENT ELIMINATING THE ROTATING CARRIER MECHANISM FOR THE ACTIVE TRANSPORT OF CA ION IN SARCOPLASMIC RETICULUM MEMBRANES. Dutton A, Rees ED, Singer SJ *Proc Natl Acad Sci USA* 73: 1532-6, May 76 (Eng) *DL/77FEB624

ACYL TRANSFER

INFLUENCE OF FAT INGESTION ON LECITHIN:CHOLESTEROL ACYL TRANSFER RATE IN PLASMA OF NORMAL PERSONS. Wallentin L, Vikrot O *Scand J Clin Lab Invest* 36: 473-9, Sep 76 (Eng) DL/77FEB392

ADENINE NUCLEOTIDE TRANSLOCATION

INHIBITED ADENINE NUCLEOTIDE TRANSLOCATION IN MITOCHONDRIA ISOLATED FROM ISCHEMIC MYOCARDIUM. Bittar N, Shug AL, Koke JR, Folts JD, Shrago ES *Recent Adv Stud Cardiac Struct Metab* 7: 137-43, 1975 (Eng) *DL/77FEB658

ADENINE NUCLEOTIDE TRANSPORT

MOLECULAR AND PHYSIOLOGICAL ASPECTS OF ADENINE NUCLEOTIDE TRANSPORT IN MITOCHONDRIA. Vignais PV *Biochim Biophys Acta* 456: 1-38, 30 Apr 76 (Eng) [188] *DL/77FEB524

ADENOCARCINOMA, MAMMARY

IDENTIFICATION AND CHARACTERIZATION OF THE INSULIN RECEPTOR IN THE R3230AC MAMMARY ADENOCARCINOMA OF THE RAT. Harmon JT, Hill R *Cancer Res* 36: 3993-4000, Nov 76 (Eng) DL/77FEB37

ADENOHYPOPHYSIAL HORMONE

MECHANISM OF ACTION OF HYPOTHALAMIC RELEASING HORMONES. ROLE OF IONS IN THE RELEASE OF ADENOHYPHYSIAL HORMONES. PP. 207-15. Kraicer J In: Lederis K, Cooper KE, ed. *Recent studies of hypothalamic function*. Basel, Karger, 1974. WL 312 165r 1973. (Eng) [18] *DL/77FEB591

ADENOHYPOPHYSIS

QUANTITATIVE EVALUATION OF SOMATOTROPIC CELLS (SC) IN THE ADENOHYPOPHYSIS OF NORMAL AND DIABETIC MALE CHINESE HAMSTERS. Deslex P, Rossi GL *Diabetologia* 12: 489-93, Oct 76 (Eng) DL/77FEB117

ADENOMA, ACIDOPHILIC

[PATHOGENESIS OF SPONTANEOUS DIABETES MELLITUS IN THE CAT. II. ACIDOPHILIC ADENOMA OF THE PITUITARY GLAND AND DIABETES MELLITUS IN 2

ADENOSINE

CASES] Gemhardt C, Loppnow H *Berl Munch Tierarztl Wochenschr* 89: 336-40, 1 Sep 76 (Ger) DL/77FEB497

ADENOSINE

REGULATION OF HEPATIC ADENYLATE CYCLASE BY GLUCAGON, GTP, DIVALENT CATIONS, AND ADENOSINE. Rodbell M, Londos C *Metabolism* 25: 1347-9, Nov 76 (Eng) DL/77FEB271

RELEASE OF ADENOSINE-LIKE MATERIAL FROM ISOLATED PERFUSED DOG ADIPOSE TISSUE FOLLOWING SYMPATHETIC NERVE STIMULATION AND ITS INHIBITION BY ADRENERGIC ALPHA-RECEPTOR BLOCKADE. Fredholm BB *Acta Physiol Scand* 96: 122-30, Mar 76 (Eng) *DL/77FEB689

ADENOSINE DIPHOSPHATE

INFLUENCE OF ELECTROSTATIC SURFACE POTENTIAL ON MITOCHONDRIAL ADP-PHOSPHORYLATION. Schafer G, Rowohl-Quisthoudt G *FEBS Lett* 59: 48-51, 1 Nov 75 (Eng) *DL/77FEB556

ADENOSINE MONOPHOSPHATE

EARLY CHANGES IN ACUTE CARDIAC OVERLOAD: STUDIES ON ADENYL CYCLASE ACTIVITY, CYCLIC 35-AMP, AND MYOSIN SYNTHESIS. Schreiber SS, Klein I, Oratz M, Evans C, Gueyikian I, Rothschild MA *Recent Adv Stud Cardiac Struct Metab* 1: 44-58, 1972 (Eng) *DL/77FEB645

ADENOSINE TRIPHOSPHATE

EFFECTS OF STREPTOZOTOCIN IN VITRO ON PROINSULIN BIOSYNTHESIS, INSULIN RELEASE AND ATP CONTENT OF ISOLATED RAT ISLETS OF LANGERHANS. Maldonado A, Trueheart PA, Renold AE, Sharp GW *Diabetologia* 12: 471-81, Oct 76 (Eng) DL/77FEB116

A MODEL FOR CONFORMATIONAL COUPLING OF MEMBRANE POTENTIAL AND PROTON TRANSLOCATION TO ATP SYNTHESIS AND TO ACTIVE TRANSPORT. Boyer PD *FEBS Lett* 58: 1-6, 15 Oct 75 (Eng) *DL/77FEB555

ADENOSINE TRIPHOSPHATE SYNTHETASE

CONFORMATIONAL CHANGES IN CYTOCHROME AA3 AND ATP SYNTHETASE OF THE MITOCHONDRIAL MEMBRANE AND THEIR ROLE IN MITOCHONDRIAL ENERGY TRANSDUCTION. Wikstrom MK, Saari HT *Mol Cell Biochem* 11: 17-33, 26 Mar 76 (Eng) [70] *DL/77FEB612

ADENOSINE-3,5-CYCLICMONOPHOSPHATE

KINETICS OF INSULIN SECRETION IN CHRONIC PANCREATITIS AND MILD MATURITY ONSET DIABETES. (EVIDENCE FOR GUT HORMONE ACTION BEYOND GLUCORECEPTOR AND CYCLIC ADENOSINE MONOPHOSPHATE MEDIATED INSULIN RELEASE). Botha JL, Vinik AI, Blake KC, Jackson WP *Eur J Clin Invest* 6: 365-72, 10 Sep 76 (Eng) DL/77FEB72

ENHANCEMENT BY D2O OF GLUCOSE-INDUCED CYCLIC AMP ACCUMULATION IN RAT ISLETS OF LANGERHANS. Grill V, Cerasi E *FEBS Lett* 68: 165-9, 1 Oct 76 (Eng) DL/77FEB78

STUDIES ON THE ROLE OF CAMP-DEPENDENT PROTEIN KINASE IN THE ACTIONS

OF GLUCAGON AND CATECHOLAMINES ON LIVER GLYCOGEN METABOLISM. Cherrington AD, Exton JH *Metabolism* 25: 1351-4, Nov 76 (Eng) DL/77FEB272

INHIBITION OF THE GLUCOSE INDUCED INSULIN RELEASE BY SOMATOSTATIN IN THE ISOLATED PERFUSED RAT PANCREAS. ACTION OF CYCLIC AMP, GLUCAGON AND GLIBENCLAMIDE. Osorio J, Campillo JE, de los Arcos JG, Pages I, Rodriguez E, Marasco M, Melani F *Rev Exp Fisiol* 32: 211-6, Sep 76 (Eng) DL/77FEB372

EFFECTS OF NA⁺ DEPLETION, THEOPHYLLINE AND 2,4-DINITROPHENOL ON NEUTRAL AMINO ACID INFLUX AND CYCLIC ADENOSINE 3,5-MONOPHOSPHATE LEVELS IN CHICKEN SMALL INTESTINE. Burrill PH, Sattelmeyer PA, Lerner J *Comp Biochem Physiol* [C] 53: 95-9, 1976 (Eng) *DL/77FEB543

MULTIPLE FORMS OF GLYCOGEN SYNTHASE KINASE: ISOLATION OF FORMS WHICH ARE INDEPENDENT OF CYCLIC AMP. Reimann EM, Schlender KK *J Cyclic Nucleotide Res* 2: 39-46, 1976 (Eng) *DL/77FEB582

CYCLIC AMP LEVELS IN THE ACUTELY ISCHEMIC MYOCARDIUM OF THE DOG AND GUINEA PIG. Wollenberger A, Krause G, Heier G *Recent Adv Stud Cardiac Struct Metab* 1: 27-9, 1972 (Eng) *DL/77FEB642

THE EFFECT OF ANTILIPOLYTIC AGENTS ON CYCLIC AMP, FREE FATTY ACID AND TOTAL CATECHOLAMINE CONCENTRATIONS IN PLASMA. Strange RC, Rowe MJ, Mjos OD, Oliver MF *Acta Med Scand* 199: 421-4, 1976 (Eng) *DL/77FEB691

THE EFFECT OF GLUCOSE AND MANGANESE ON ADENOSINE-3,5-MONOPHOSPHATE LEVELS DURING GROWTH AND DIFFERENTIATION OF ASPERGILLUS NIDULANS. Zonneveld BJ *Arch Microbiol* 108: 41-4, 3 May 76 (Eng) *DL/77FEB708

ADENOSINE-3,5-CYCLICMONOPHOSPHATE

EARLY CHANGES IN ACUTE CARDIAC OVERLOAD: STUDIES ON ADENYL CYCLASE ACTIVITY, CYCLIC 35-AMP, AND MYOSIN SYNTHESIS. Schreiber SS, Klein I, Oratz M, Evans C, Gueyikian I, Rothschild MA *Recent Adv Stud Cardiac Struct Metab* 1: 44-58, 1972 (Eng) *DL/77FEB645

ADENYL CYCLASE ACTIVITY

EARLY CHANGES IN ACUTE CARDIAC OVERLOAD: STUDIES ON ADENYL CYCLASE ACTIVITY, CYCLIC 35-AMP, AND MYOSIN SYNTHESIS. Schreiber SS, Klein I, Oratz M, Evans C, Gueyikian I, Rothschild MA *Recent Adv Stud Cardiac Struct Metab* 1: 44-58, 1972 (Eng) *DL/77FEB645

ADENYLATE CYCLASE

ADENYLATE CYCLASE ACTIVITY IN HUMAN TISSUES. Constantopoulos A, Xypolita A, Matsaniotis N *Biol Neonate* 29: 294-8, 1976 (Eng) DL/77FEB14

ADRENALINE-INDUCED DESENSITIZATION OF LIVER ADENYLATE CYCLASE. Lam V, Bar HP *Biochem Pharmacol* 25: 2103-4, 15 Sep 76 (Eng) DL/77FEB513

REGULATION OF SECRETION FROM THE ADRENAL MEDULLA. EVIDENCE FOR ADENYLATE CYCLASE ACTIVITY IN SECRETORY VESICLE MEMBRANES. Zinder O, Nikoijevic O, Hoffman PG, Pollard HB *J Biol Chem* 241: 2179-81, 10 Apr 76 (Eng) *DL/77FEB569

THE EFFECT OF ALPHA AND BETA ADRENERGIC RECEPTOR STIMULATION ON THE ADENYLATE CYCLASE ACTIVITY OF HUMAN ADIPOCYTES. Burns TW, Langley PE *J Cyclic Nucleotide Res* 1: 321-8, 1975 (Eng) *DL/77FEB579

THE EFFECT OF DIVALENT CATIONS ON BOVINE SPERMATOZOAL ADENYLATE CYCLASE ACTIVITY. Braun T *J Cyclic Nucleotide Res* 1: 271-81, 1975 (Eng) *DL/77FEB581

HOLOCATALYTIC STATE OF ADENYLATE CYCLASE IN TURKEY ERYTHROCYTE MEMBRANES: FORMATION WITH GUANYLYLMIDODIPHOSPHATE PLUS ISOPROTERENOL WITHOUT EFFECT ON AFFINITY OF BETA-RECEPTOR. Spiegel AM, Brown EM, Fedak SA, Woodard CJ, Aurbach GD *J Cyclic Nucleotide Res* 2: 47-56, 1976 (Eng) *DL/77FEB583

ADENYLATE CYCLASE, HEPATIC

REGULATION OF HEPATIC ADENYLATE CYCLASE BY GLUCAGON, GTP, DIVALENT CATIONS, AND ADENOSINE. Rodbell M, Londos C *Metabolism* 25: 1347-9, Nov 76 (Eng) DL/77FEB271

ADENYL CYCLASE

[ADIPOSE-TISSUE ADENYL CYCLASE] Kather H, Simon B *Med Klin* 71: 739-44, 30 Apr 76 (Ger) [63] *DL/77FEB610

ADIPOCYTE

INHIBITION OF ACTIONS OF GLUCAGON IN ADIPOCYTES BY GASTRIC INHIBITORY POLYPEPTIDE. Dupre J, Greenidge N, McDonald TJ, Ross SA, Rubinstein D *Metabolism* 25: 1197-9, Nov 76 (Eng) DL/77FEB259

[SUBCELLULAR LOCALIZATION OF RAT ADIPOCYTE LIPOPROTEIN LIPASE] Wolf C, Vanhove A, Breton M, Etienne J, Bereziat G, Polonovski J *C R Soc Biol (Paris)* 169: 1145-9, 1975 (Fre) *DL/77FEB528

ADIPOCYTE BETA-ADRENERGIC RECEPTORS. IDENTIFICATION AND SUBCELLULAR LOCALIZATION BY (-)-[3H]DIHYDROALPRENOLOL BINDING. Williams LT, Jarett L, Lefkowitz RJ *J Biol Chem* 251: 3096-104, 25 May 76 (Eng) *DL/77FEB572

THE EFFECT OF ALPHA AND BETA ADRENERGIC RECEPTOR STIMULATION ON THE ADENYLATE CYCLASE ACTIVITY OF HUMAN ADIPOCYTES. Burns TW, Langley PE *J Cyclic Nucleotide Res* 1: 321-8, 1975 (Eng) *DL/77FEB579

INFLUENCE ON ADIPOCYTE PLASMA MEMBRANE BOUND PROTEIN KINASE BY FEEDBACK REGULATOR. Ho R, Russell T, Asakawa T, Snyder RP *J Cyclic Nucleotide Res* 1: 349-58, 1975 (Eng) *DL/77FEB580

LIPOLYSIS AS A FUNCTION OF CELL NUMBERS AND FAT CONTENT: COMPARISON BETWEEN ISOLATED RAT AND DOG ADIPOCYTES. Hotta N, Sirek OV, Sirek A, Policova Z *Pahlavi Med J* 7: 167-79, Apr 76 (Eng) *DL/77FEB618

LIPOLYTIC ACTIVITY OF SWINE ADIPOCYTES. Mersmann HJ, Brown LJ, Beuving RD, Arakelian MC *Am J Physiol* 230: 1439-43, May 76 (Eng) *DL/77FEB700

ADIPOSE TISSUE

[ANTAGONISM IN THE ACTION OF HYDROCORTISONE AND INSULIN IN VIVO ON ENZYMES OF PYRUVATE AND MALATE METABOLISM IN ADIPOSE TISSUE] Ilin VS, Vasileva LE, Tokhadze OG *Biokhimiia* 41: 1646-50, Sep 76 (Rus) DL/77FEB12

SERUM TRIGLYCERIDES AND FATTY ACID INCORPORATION INTO HUMAN ADIPOSE TISSUE (TIAT). THEIR RELATIONS WITH ADIPOSE TISSUE CHARACTERISTICS AND GLUCOSE TOLERANCE. Walldius G *Acta Med Scand* 200: 409-21, 1976 (Eng) DL/77FEB460

SURGICAL REDUCTION OF ADIPOSE TISSUE IN THE MALE SPRAGUE-DAWLEY RAT. Kral JG *Am J Physiol* 231: 1090-6, Oct 76 (Eng) DL/77FEB475

THE EFFECT OF GLUCOSE, INSULIN AND ADRENALINE ON GLYCEROL METABOLISM IN VITRO IN RAT ADIPOSE TISSUE. Dominguez MC, Herrera E *Biochem J* 158: 183-90, 15 Aug 76 (Eng) DL/77FEB503

INTRA- AND EXTRACELLULAR FORMS OF LIPOPROTEIN LIPASE IN ADIPOSE TISSUE. Nilsson-Ehle P, Garfinkel AS, Schotz MC *Biochim Biophys Acta* 431: 147-56, 22 Apr 76 (Eng) *DL/77FEB522

[ADIPOSE-TISSUE ADENYLACYCLASE] Kather H, Simon B *Med Klin* 71: 739-44, 30 Apr 76 (Ger) [63] *DL/77FEB610

EFFECT OF ETHANOL ON THE ACTIVITY OF LIPOPROTEIN LIPASE IN ADIPOSE TISSUE OF MALE AND FEMALE RATS. Johnson O, Hernell O *Nutr Metab* 19: 41-4, 1975 (Eng) *DL/77FEB616

HUMAN ADIPOSE TISSUE IN CULTURE. VI. EFFECT OF AGE ON CELL SIZE AND LIPOLYSIS. Nyberg G, Mellgren G, Smith U *Acta Paediatr Scand* 65: 313-8, May 76 (Eng) *DL/77FEB687

RELEASE OF ADENOSINE-LIKE MATERIAL FROM ISOLATED PERFUSED DOG ADIPOSE TISSUE FOLLOWING SYMPATHETIC NERVE STIMULATION AND ITS INHIBITION BY ADRENERGIC ALPHA-RECEPTOR BLOCKADE. Fredholm BB *Acta Physiol Scand* 96: 122-30, Mar 76 (Eng) *DL/77FEB689

ADIPOSE TISSUE, BROWN

PROTEIN KINASES AND THEIR SUBSTRATES IN BROWN ADIPOSE TISSUE FROM NEWBORN RATS. Knight BL *Biochim Biophys Acta* 429: 798-808, 13 May 76 (Eng) *DL/77FEB521

ADIPOSE TISSUE, EPIDIDYMAL

TRIGLYCERIDE METABOLISM IN EPIDIDYMAL ADIPOSE TISSUE OF OBESE ANIMALS. Okuda H *Pharmacol Biochem Behav* 3: 145-7, 1975 (Eng) *DL/77FEB626

ADIPOSE TISSUE, SUBCUTANEOUS

OXYGEN UPTAKE AND TISSUE OXYGEN TENSION DURING ADRENERGIC STIMULATION IN CANINE SUBCUTANEOUS ADIPOSE TISSUE. Fredholm BB, Linde B, Prewitt RL, Johnson PC *Acta Physiol Scand* 97: 48-59, Mar 76 (Eng) *DL/77FEB690

ADP

SEE ADENOSINE DIPHOSPHATE

ADRENAL

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltz C, Leclercq-Meyer V, Mialhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77FEB86

ADRENAL AND LIVER PARTICIPATION IN THE RATS POST-STRESS DIABETIC RESPONSE. Vargas I, Kawada ME *Horm Metab Res* 8: 383-8, Sep 76 (Eng) DL/77FEB144

ADRENAL AND PANCREATIC ENDOCRINE RESPONSES TO HYPOXIA IN THE CONSCIOUS CALF. Bloom SR, Edwards AV, Hardy

RN, Silver M *J Physiol (Lond)* 261: 271-83, Oct 76 (Eng) DL/77FEB212

ADRENAL CORTEX

[ROLE OF DIFFERENT REGIONS OF THE HYPOTHALAMUS IN REGULATING THE HYPOPHYSEAL-ADRENAL CORTEX SYSTEM IN RATS] Konovalova LK *Probl Endokrinol (Mosk)* 22: 58-62, 1976 (Rus) *DL/77FEB622

ADRENAL FUNCTION

THE INFLUENCE OF STREPTOZOTOCIN DIABETES ON ADRENAL FUNCTION IN MALE RATS. De Nicola AF, Fridman O, Del Castillo EJ, Foglia VG *Horm Metab Res* 8: 388-92, Sep 76 (Eng) DL/77FEB145

EFFECTS OF GROWTH HORMONE RELEASE-INHIBITING HORMONE AND BROMOCRYPTINE (CB 154) IN STATES OF ABNORMAL PITUITARY-ADRENAL FUNCTION. Benker G, Hackenberg K, Hamburger B, Reinwein D *Clin Endocrinol (Oxf)* 5: 187-90, Mar 76 (Eng) *DL/77FEB542

ADRENAL MEDULLA

REGULATION OF SECRETION FROM THE ADRENAL MEDULLA. EVIDENCE FOR ADENYLATE CYCLASE ACTIVITY IN SECRETORY VESICLE MEMBRANES. Zinder O, Nikoijevic O, Hoffman PG, Pollard HB *J Biol Chem* 241: 2179-81, 10 Apr 76 (Eng) *DL/77FEB569

ADRENALINE

THE EFFECT OF GLUCOSE, INSULIN AND ADRENALINE ON GLYCEROL METABOLISM IN VITRO IN RAT ADIPOSE TISSUE. Dominguez MC, Herrera E *Biochem J* 158: 183-90, 15 Aug 76 (Eng) DL/77FEB503

ADRENALINE-INDUCED DESENSITIZATION OF LIVER ADENYLATE CYCLASE. Lam V, Bar HP *Biochem Pharmacol* 25: 2103-4, 15 Sep 76 (Eng) DL/77FEB513

[EFFECT OF ADRENALINE, NORADRENALINE, DOPAMINE, DOPA AND PHENYLALANINE ON LIPID PEROXIDATION IN LIVER MITOCHONDRIA MEMBRANES] Sergeev PV, Seifulla RD, Dunaev VG, Rudnev IuN *Bull Eksp Biol Med* 80: 25-8, Dec 75 (Rus) *DL/77FEB526

MECHANISM OF ACTIONS OF ADRENALINE AND ACTH IN FAT MOBILIZATION. Okuda H *Pharmacol Biochem Behav* 3: 149-53, 1975 (Eng) *DL/77FEB627

ADRENERGIC

EXTRACELLULAR CALCIUM AND ADRENERGIC AND CHOLINERGIC EFFECTS ON ISLET BETA-CELL FUNCTION. Burr IM, Slonim AE, Burke V, Fletcher T *Am J Physiol* 231: 1246-9, Oct 76 (Eng) DL/77FEB476

ADRENERGIC NEUROHUMORS

ADRENERGIC NEUROHUMORS IN THE HEART OF HAMSTERS WITH HEREDITARY MYOPATHY DURING CARDIAC HYPERTROPHY AND FAILURE. Angelakos ET, Carballo LC, Daniels JB, King MP, Bajusz E *Recent Adv Stud Cardiac Struct Metab* 1: 262-78, 1972 (Eng) *DL/77FEB641

ADRENERGIC RECEPTOR, ALPHA

THE EFFECT OF ALPHA AND BETA ADRENERGIC RECEPTOR STIMULATION ON THE ADENYLATE CYCLASE ACTIVITY OF

HUMAN ADIPOCYTES. Burns TW, Langley PE *J Cyclic Nucleotide Res* 1: 321-8, 1975 (Eng) *DL/77FEB579

RELEASE OF ADENOSINE-LIKE MATERIAL FROM ISOLATED PERFUSED DOG ADIPOSE TISSUE FOLLOWING SYMPATHETIC NERVE STIMULATION AND ITS INHIBITION BY ADRENERGIC ALPHA-RECEPTOR BLOCKADE. Fredholm BB *Acta Physiol Scand* 96: 122-30, Mar 76 (Eng) *DL/77FEB689

ADRENERGIC RECEPTOR, BETA

ADIPOCYTE BETA-ADRENERGIC RECEPTORS. IDENTIFICATION AND SUBCELLULAR LOCALIZATION BY (-)-[3H]DIHYDROALPRENOLOL BINDING. Williams LT, Jarett L, Lefkowitz RJ *J Biol Chem* 251: 3096-104, 25 May 76 (Eng) *DL/77FEB572

THE EFFECT OF ALPHA AND BETA ADRENERGIC RECEPTOR STIMULATION ON THE ADENYLATE CYCLASE ACTIVITY OF HUMAN ADIPOCYTES. Burns TW, Langley PE *J Cyclic Nucleotide Res* 1: 321-8, 1975 (Eng) *DL/77FEB579

ADRENERGIC STIMULATION

OXYGEN UPTAKE AND TISSUE OXYGEN TENSION DURING ADRENERGIC STIMULATION IN CANINE SUBCUTANEOUS ADIPOSE TISSUE. Fredholm BB, Linde B, Prewitt RL, Johnson PC *Acta Physiol Scand* 97: 48-59, Mar 76 (Eng) *DL/77FEB690

ADRENOCORTICAL SYSTEM

[FUNCTIONAL ORGANIZATION OF THE HYPOTHALAMUS IN REGULATION OF THE HYPOPHYSEAL-ADRENOCORTICAL SYSTEM] Filaretov AA, Vasilevskaia LV *Dokl Akad Nauk SSSR* 227: 1018-20, 1976 (Rus) *DL/77FEB546

ADRENOCORTICOTROPIC HORMONE

[IN VITRO ASSAY FOR ACTH-RELEASING ACTIVITY USING ACTH RADIOIMMUNOASSAY: ACTH RELEASING ACTIVITIES BY VARIOUS DRUGS (AUTHORS TRANSL)] Hashimoto K, Takahara J, Hosogi H, Ofuji N, Yasuhara T *Folia Endocrinol Jpn* 52: 114-24, 20 Feb 76 (Jpn) DL/77FEB82

MECHANISM OF ACTIONS OF ADRENALINE AND ACTH IN FAT MOBILIZATION. Okuda H *Pharmacol Biochem Behav* 3: 149-53, 1975 (Eng) *DL/77FEB627

AEROBIC

EFFECTS OF REGIONAL ISCHEMIA ON METABOLISM OF GLUCOSE AND FATTY ACIDS. RELATIVE RATES OF AEROBIC AND ANAEROBIC ENERGY PRODUCTION DURING MYOCARDIAL INFARCTION AND COMPARISON WITH EFFECTS OF ANOXIA. Opie LH *Circ Res* 38: i52-74, May 76 (Eng) *DL/77FEB539

AGE

[DIABETES MELLITUS UNDER 30 YEARS OF AGE. RESULTS OF 18 YEARS EXPERIENCE WITH ORAL TREATMENT (AUTHORS TRANSL)] Mirozou J, Carthy E *Diabete Metab* 1: 113-8, Jun 75 (Fre) DL/77FEB92

HUMAN GROWTH HORMONE CHANGES WITH AGE. PP. 261-70. Bazzarre TL, Johanson AJ, Huseman CA, Varma MM, Blizzard RM *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB182*

AGING

THE ROLE OF NUTRITION TO DIABETES IN RELATION TO AGE. PP. 229-52. Gerritsen GC *In0* Rockstein M, Sussman ML, ed. *Nutrition, longevity, and aging*. New York, Academic Press, 1976. WT 104 N977 1976. (Eng) [84] DL/77FEB193

EFFECT OF AGE ON CARDIAC METABOLISM. Sobel H *Recent Adv Stud Cardiac Struct Metab* 1: 101-11, 1972 (Eng) *DL/77FEB633

HUMAN ADIPOSE TISSUE IN CULTURE. VI. EFFECT OF AGE ON CELL SIZE AND LIPOLYSIS. Nyberg G, Mellgren G, Smith U *Acta Paediatr Scand* 65: 313-8, May 76 (Eng) *DL/77FEB687

AGING

IS DIABETES A FORM OF ACCELERATED AGING Kent S *Geriatrics* 31: 140, 145, 149-51, Nov 76 (Eng) DL/77FEB131

THE ROLE OF NUTRITION IN HUMAN AGING. PP. 29-45. Caster WO *In0* Rockstein M, Sussman ML, ed. *Nutrition, longevity, and aging*. New York, Academic Press, 1976. WT 104 N977 1976. (Eng) [71] DL/77FEB192

EFFECT OF AGING ON RIGHT VENTRICULAR ANOXIC RESISTANCE. Martin LG, McGrath JJ, Connors JM *Recent Adv Stud Cardiac Struct Metab* 7: 267-74, 1975 (Eng) *DL/77FEB668

AGING, MODEL

IS DIABETES A MODEL FOR AGING Shagan BP *Med Clin North Am* 60: 1209-11, 1976 (Eng) DL/77FEB241

ALANINE

[GLUCOSE-ALANINE CYCLE] Labadie P *Rev Prat* 26: 3023-30, 1 Oct 76 (Fre) DL/77FEB379

ALCOHOL

LETTER: EFFECT OF ALCOHOL ON ANTERIOR-PITUITARY SECRETION OF TROPHIC HORMONES. Ylikahri RH, Huttunen MO, Harkonen M *Lancet* 1: 1353, 19 Jun 76 (Eng) *DL/77FEB608

[SPECTROSCOPIC STUDIES ON THE SELF-ASSOCIATION MECHANISM OF BIOMEMBRANE LIPID COMPONENTS AND THEIR INTERACTION WITH WATER AND ALCOHOLS IN A NON-POLAR MEDIUM] Koval VH *Ukr Biokhim Zh* 47: 505-9, Jul-Aug 75 (Ukr) *DL/77FEB681

ALCOHOL, ETHYL

[AMOUNT OF ACETONE AND ETHYL ALCOHOL IN THE BLOOD AND URINE OF PATIENTS WITH DIABETES MELLITUS AND ISCHEMIC HEART DISEASE] Kamysheva EP, Sorochkina RM, Kapatsinskaya IK, Romanova LN, Danilova MI *Sov Med* 147-8, Apr 76 (Rus) DL/77FEB403

ALDEHYDE REDUCTASE

PARTIAL PURIFICATION OF THE NADPH-DEPENDENT ALDEHYDE REDUCTASE FROM BOVINE CARDIAC MUSCLE. Kawalek JC, Gilbertson JR *Arch Biochem Biophys* 173: 649-57, Apr 76 (Eng) *DL/77FEB703

ALDITOL

[TRANSPORT AND UTILIZATION OF ALDITOLS IN THE YEAST RHODOTORULA GRACILIS GLUTINIS (AUTHORS TRANSL.)] Kloppe R, Hofer M *Arch Microbiol* 107: 329-34, 1 Apr 76 (Ger) *DL/77FEB706

[TRANSPORT AND UTILIZATION OF ALDITOLS IN THE YEAST RHODOTORULA GRACILIS GLUTINIS (AUTHORS TRANSL.)] Kloppe R, Hofer M *Arch Microbiol* 107: 335-42, 1 Apr 76 (Ger) *DL/77FEB707

ALDOSE

GAS CHROMATOGRAPHIC STUDY OF FREE POLYOLS AND ALDOSES IN CATARACTOUS HUMAN LENS TISSUE. Pfaffenberger CD, Szafrancik J, Horning EC *J Chromatogr* 126: 535-45, 3 Nov 76 (Eng) DL/77FEB164

ALDOSE REDUCTASE

INHIBITION OF LENS ALDOSE REDUCTASE BY FLAVONOIDS--THEIR POSSIBLE ROLE IN THE PREVENTION OF DIABETIC CATARACTS. Varma SD, Kinoshita JH *Biochem Pharmacol* 25: 2505-13, 15 NOV 76 (Eng) DL/77FEB514

ALDOSTERONE

CRITERIA FOR DIAGNOSIS OF ALDOSTERONE BIOSYNTHETIC DEFECTS [LETTER]. Rossler A, Ulick S *N Engl J Med* 295: 1383, 9 Dec 76 (Eng) DL/77FEB325

ALLOSTERIC

STUDIES ON ALLOSTERIC PHENOMENA IN GLYCOGEN PHOSPHORYLASE. B. Madsen NB, Avramovic-Zikic O, Lue PF, Honikel KO *Mol Cell Biochem* 11: 35-50, 26 Mar 76 (Eng) [59] *DL/77FEB613

ALLOXAN DIABETES

EFFECTS OF HYPOPHYSECTOMY ON ALLOXAN-DIABETIC, ARTERIOSCLEROTIC, BREEDER VS. NON-ARTERIOSCLEROTIC, VIRGIN RATS. Wexler BC *Atherosclerosis* 25: 13-30, Oct 76 (Eng) DL/77FEB515

ALPHA 1-CELL

SOMATOSTATIN, A HORMONE OF THE ALPHA 1-CELLS OF THE PANCREATIC ISLETS AND ITS INFLUENCE ON THE SECRETION OF INSULIN AND GLUCAGON. PP. 216-21. Efendic S, Hokfelt T, Luft R *In0* Pecile A, Muller EE, ed. *Growth hormone and related peptides*. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB190

ALPHA ADRENERGIC RECEPTOR

THE EFFECT OF ALPHA AND BETA ADRENERGIC RECEPTOR STIMULATION ON THE ADENYLATE CYCLASE ACTIVITY OF HUMAN ADIPOCYTES. Burns TW, Langley PE *J Cyclic Nucleotide Res* 1: 321-8, 1975 (Eng) *DL/77FEB579

ALPHA CELL

NEUROHUMORAL REGULATION OF THE PANCREATIC ISLET A AND B CELLS. Porte, D Jr, Smith PH, Ensink JW *Metabolism* 25: 1453-6, Nov 76 (Eng) [21] DL/77FEB296

GUT HORMONES AND THE ALPHA CELL. Bloom SR, Iversen J *Metabolism* 25: 1457-8, Nov 76 (Eng) DL/77FEB297

ALPHA CELL FUNCTION IN DIABETES MELLITUS. Gerich JE *Metabolism* 25: 1513-6, Nov 76 (Eng) DL/77FEB312

EVIDENCE FOR AN INSULIN-INDEPENDENT ALPHA-CELL ABNORMALITY IN HUMAN DIABETES. Bennett PH, Aronoff SL, Unger RH *Metabolism* 25: 1527-9, Nov 76 (Eng) DL/77FEB316

FUNCTIONAL DIFFERENTIATION OF THE CHICK ENDOCRINE PANCREAS. II. THE ALPHA CELLS AND GLUCAGON. Benzo CA, Stearns SB *Am J Anat* 147: 273-9, Nov 76 (Eng) DL/77FEB465

ALPHA CELL, GASTRIC

GASTRIC A-CELL FUNCTION IN NORMAL DOGS. Munoz-Barragan L, Blazquez E, Patton GS, Dobbs RE, Unger RH *Am J Physiol* 231: 1057-61, Oct 76 (Eng) DL/77FEB474

ALPHA FETO PROTEIN

[ALPHA FETO PROTEIN. NORMAL PREGNANCIES AND MATERNAL DISEASES. APROPOS OF 3,010 RADIOIMMUNOLOGIC DETERMINATIONS] Brettes JP, Tourné CE, Gandar R *J Gynecol Obstet Biol Reprod (Paris)* 5: 637-44, Jul-Aug 76 (Fre) DL/77FEB176

ALPHA RECEPTOR BLOCKADE

RELEASE OF ADENOSINE-LIKE MATERIAL FROM ISOLATED PERFUSED DOG ADIPOSE TISSUE FOLLOWING SYMPATHETIC NERVE STIMULATION AND ITS INHIBITION BY ADRENERGIC ALPHA-RECEPTOR BLOCKADE. Fredholm BB *Acta Physiol Scand* 96: 122-30, Mar 76 (Eng) *DL/77FEB689

ALPHA2-MACROGLOBULIN

ALPHA2-MACROGLOBULIN IN DIABETES [LETTER]. McMillan DE *Lancet* 2: 1020-1, 6 Nov 76 (Eng) DL/77FEB251

ALVEOLAR MACROPHAGE

OXYGEN METABOLISM IN THE ALVEOLAR MACROPHAGE: FRIEND AND FOE Bernard J, Gee JB, Khandwala AS *J Reticuloendothel Soc* 19: 229-36, Apr 76 (Eng) *DL/77FEB601

AMINE, BIOGENIC

[THE ENDOCRINE CELLS OF THE GASTROINTESTINAL EPITHELIUM AND THE METABOLISM OF BIOGENIC AMINES IN THE GASTROINTESTINAL TRACT (AUTHORS TRANSL.)] Grube D *Prog Histochem Cytochem* 8: 1-128, 1976 (Ger) [968] DL/77FEB369

[ENDOCRINE CELLS PRODUCING POLYPEPTIDES AND BIOGENIC AMINES] Bussolati G *Riv Istochim Norm Patol* 18: 95-118, 1974 (Ita) *DL/77FEB679

AMINO ACID

INSULIN, GLUCAGON, AMINOACID IMBALANCE, AND HEPATIC ENCEPHALOPATHY. Soeters PB, Fischer JE *Lancet* 2: 880-2, 23 Oct 76 (Eng) DL/77FEB245

FURTHER STUDIES ON THE POSSIBILITY OF DIFFERENTIAL DEMONSTRATION OF RADICALS OF SULPHUR-CONTAINING AMINO-ACIDS. Szydlowska H, Junikiewicz E *Folia Histochem Cytochem (Krakow)* 14: 57-62, 1976 (Eng) *DL/77FEB563

THE EFFECT OF HYPERTHERMIA UPON OXYGEN CONSUMPTION AND UPON ORGANIC PHOSPHATES, GLYCOLYTIC METABOLITES, CITRIC AND CYCLE INTERMEDIATES AND ASSOCIATED AMINO ACIDS IN RAT CEREBRAL CORTICES. Carlsson C, Hagerdal M, Sievjo BK *J Neurochem* 26: 1001-6, May 76 (Eng) *DL/77FEB599

METABOLIC PROPERTIES OF A PURIFIED PREPARATION OF LARGE FRAGMENTS OF THE CEREBELLAR GLOMERULI: GLUCOSE METABOLISM AND AMINO ACID UPTAKE.

Diabetes Literature—Keyword Index

ANTERIOR PITUITARY SECRETION

ANGIOTENSIN II

[INFLUENCE OF ANGIOTENSIN II ON THE FATTY ACID LEVEL IN THE TRIACYLGLYCERIDES OF THE BLOOD PLASMA OF RABBITS] Mikhailov ML *Patol Fiziol Eksp Ter* 75-7, May-Jun 75 (Rus) *DL/77FEB620

ANIMAL CELL

EFFECTS OF DENSITY-DEPENDENT INHIBITION OF GROWTH ON PHOSPHOLIPID METABOLISM IN MONOLAYER CULTURES OF ANIMAL CELLS. Gallaher WR, Blough HA *Arch Biochem Biophys* 173: 738-46, Apr 76 (Eng) *DL/77FEB704

ANIMAL MODEL

INBRED MICE AND THEIR HYBRIDS AS AN ANIMAL MODEL FOR ATHEROSCLEROSIS RESEARCH. Roberts A, Thompson JS *Adv Exp Med Biol* 67: 313-327, 1976 (Eng) *DL/77FEB695

ANORECTIC DRUG

STUDIES WITH FLUTIOREX, A NEW ANORECTIC DRUG, ON GLUCOSE UPTAKE INTO HUMAN ISOLATED SKELETAL MUSCLE. Kirby MJ, Carageorgiou-Markomihailakis H, Turner P *Br J Clin Pharmacol* 2: 541-2, Dec 75 (Eng) DL/77FEB6

ANOXIA

EFFECTS OF ANOXIA AND ISCHEMIA ON PROTEIN SYNTHESIS IN PERFUSED RAT HEARTS. Kao R, Rannels DE, Morgan HE *Circ Res* 38: i124-30, May 76 (Eng) *DL/77FEB536

EFFECTS OF REGIONAL ISCHEMIA ON METABOLISM OF GLUCOSE AND FATTY ACIDS. RELATIVE RATES OF AEROBIC AND ANAEROBIC ENERGY PRODUCTION DURING MYOCARDIAL INFARCTION AND COMPARISON WITH EFFECTS OF ANOXIA. Opie LH *Circ Res* 38: i52-74, May 76 (Eng) *DL/77FEB539

EFFECT OF AGING ON RIGHT VENTRICULAR ANOXIC RESISTANCE. Martin LG, McGrath JJ, Connors JM *Recent Adv Stud Cardiac Struct Metab* 7: 267-74, 1975 (Eng) *DL/77FEB668

ANTERIOR PITUITARY

KINETICS OF PROTEIN SYNTHESIS AND RELEASE IN THE STH-CELL OF THE MOUSE ANTERIOR PITUITARY AS REVEALED BY ELECTRON MICROSCOPIC AUTORADIOGRAPHY OF 3H-AMINO ACIDS. Hiura M, Komatsu M, Fujita H *Arch Histol Jpn* 38: 347-57, Feb 76 (Eng) *DL/77FEB709

ANTERIOR PITUITARY HORMONE

CONTROL OF ANTERIOR PITUITARY HORMONE SECRETION. HYPOTHALAMIC PEPTIDES AND THEIR INTERACTIONS. PP. 180-95. Grant G, Vale W, Brazeau P, Rivier J, Monahan M, Gilon C, Amoss M, Rivier C, Ling N, Burgus R, Guillemin R *In: O Lederer K, Cooper KE, ed. Recent studies of hypothalamic function. Basel, Karger, 1974. WL 312 165r 1973. (Eng) [39] *DL/77FEB588*

ANTERIOR PITUITARY SECRETION

LETTER: EFFECT OF ALCOHOL ON ANTERIOR-PITUITARY SECRETION OF TROPIC HORMONES. Ylikahri RH, Huttunen MO, Harkonen M *Lancet* 1: 1353, 19 Jun 76 (Eng) *DL/77FEB608

Wilson JE, Wilkin GP, Balazs R *J Neurochem* 26: 957-65, May 76 (Eng) *DL/77FEB600

INCORPORATION OF AMINO ACID INTO TOTAL AND CONTRACTILE PROTEIN OF TISSUE SLICES OF THE HYPERTROPHYING RAT HEART. Wollenberger A, Onnen K *Recent Adv Stud Cardiac Struct Metab* 1: 186-9, 1972 (Eng) *DL/77FEB638

KINETICS OF PROTEIN SYNTHESIS AND RELEASE IN THE STH-CELL OF THE MOUSE ANTERIOR PITUITARY AS REVEALED BY ELECTRON MICROSCOPIC AUTORADIOGRAPHY OF 3H-AMINO ACIDS. Hiura M, Komatsu M, Fujita H *Arch Histol Jpn* 38: 347-57, Feb 76 (Eng) *DL/77FEB709

AMINO ACID METABOLISM

EFFECTS OF HORMONES ON PROTEIN AND AMINO ACID METABOLISM IN MAMMARY-GLAND EXPLANTS OF MICE. Anderson LD, Rillema JA *Biochem J* 158: 355-9, 15 Aug 76 (Eng) DL/77FEB506

AMINO ACID, NEUTRAL

EFFECTS OF NA⁺ DEPLETION, THEOPHYLLINE AND 2,4-DINITROPHENOL ON NEUTRAL AMINO ACID INFLUX AND CYCLIC ADENOSINE 3:5-MONOPHOSPHATE LEVELS IN CHICKEN SMALL INTESTINE. Burrill PH, Sattelmeyer PA, Lerner J *Comp Biochem Physiol [C]* 53: 95-9, 1976 (Eng) *DL/77FEB543

AMINO ACID SEQUENCE

THE EVOLUTIONARY ORIGIN OF PROINSULIN. AMINO ACID SEQUENCE HOMOLOGY WITH THE TRYPSIN-RELATED SERINE PROTEASES DETECTED AND EVALUATED BY NEW STATISTICAL METHODS. de Haen C, Swanson E, Teller DC *J Mol Biol* 106: 639-61, 25 Sep 76 (Eng) DL/77FEB215

AMINO ACID TRANSPORT

GLUCAGON STIMULATES THE A SYSTEM FOR NEUTRAL AMINO ACID TRANSPORT IN ISOLATED HEPATOCYTES OF ADULT RAT. Le Cam A, Freychet P *Biochem Biophys Res Commun* 72: 893-901, 4 Oct 76 (Eng) DL/77FEB510

AMINOTRANSFERASE

ORGAN DISTRIBUTION OF RAT HISTIDINE-PYRUVATE AMINOTRANSFERASE ISOENZYMES. Noguchi T, Minatogawa Y, Okuno E, Kido R *Biochem J* 157: 635-41, 1 Sep 76 (Eng) DL/77FEB502

AMNIOTIC FLUID

[CONCENTRATION OF PREGNANCY-SPECIFIC-BETA-I-PROTEIN SPI IN AMNIOTIC FLUID IN NORMAL AND PATHOLOGIC PREGNANCIES (AUTHORS TRANSL)] Tatra G, Polak S, Placheta P *Arch Gynaekol* 221: 161-6, 17 Sep 76 (Ger) DL/77FEB494

AMP

SEE ADENOSINE MONOPHOSPHATE

AMYLASE

STUDIES ON GLYCOGENOLYSIS IN CARP LIVER: EVIDENCE FOR AN AMYLASE PATHWAY FOR GLYCOGEN BREAKDOWN. Murat JC *Comp Biochem Physiol [B]* 55: 461-5, 1976 (Eng) DL/77FEB58

THE POTENTIATING INFLUENCES OF INSULIN ON PANCREOZYMIN-INDUCED HYPERPOLARIZATION AND AMYLASE RELEASE IN THE PANCREATIC ACINAR CELL. Kanno T, Saito A *J Physiol (Lond)* 261: 505-21, Oct 76 (Eng) DL/77FEB213

ANAEROBIC

EFFECTS OF REGIONAL ISCHEMIA ON METABOLISM OF GLUCOSE AND FATTY ACIDS. RELATIVE RATES OF AEROBIC AND ANAEROBIC ENERGY PRODUCTION DURING MYOCARDIAL INFARCTION AND COMPARISON WITH EFFECTS OF ANOXIA. Opie LH *Circ Res* 38: i52-74, May 76 (Eng) *DL/77FEB539

ANALOGUE

INSULIN RELEASE AND PHOSPHATE ION EFFLUX FROM RAT PANCREATIC ISLETS INDUCED BY L-LEUCINE AND ITS NON-METABOLIZABLE ANALOGUE, 2-AMINO-BICYCLO[2.2.1]HEPTANE-2-CARBOXYLIC ACID. Freinkel N, Younsi CE, Dawson RMC *Proc Natl Acad Sci USA* 73: 3403-7, Oct 76 (Eng) DL/77FEB358

ANALOGUE, GLUCAGON

STUDIES WITH GLUCAGON ANALOGS. Bromer WW *Metabolism* 25: 1315-6, Nov 76 (Eng) DL/77FEB263

BIOLOGIC ACTIVITY AND CONFORMATIONAL PROPERTIES OF GLUCAGON AND GLUCAGON ANALOGS. Epand RM, Cote TE, Hoa DH, Rosselin G, Schreier S *Metabolism* 25: 1317-8, Nov 76 (Eng) DL/77FEB264

ANALOGUE, SOMATOSTATIN

SOMATOSTATIN ANALOGS WITH SELECTED BIOLOGIC ACTIVITIES. Brown M, Rivier J, Vale W *Metabolism* 25: 1501-3, Nov 76 (Eng) DL/77FEB309

ANESTHESIA

[ETRAN (ENFLURANE) ANESTHESIA (LITERATURE SURVEY)] Riabov GA, Semenov VN *Eksp Khir Anesteziol* 86-90, May-Jun 76 (Rus) DL/77FEB66

METABOLISM OF MALTOSE DURING SURGERY IN PATIENTS WITH DIABETES MELLITUS UNDER GENERAL ANESTHESIA. Yoshikawa K, Oda T *Res Exp Med (Berl)* 167: 127-38, 15 May 76 (Eng) DL/77FEB374

ANGIOGRAPHIC

ACUTE PYELONEPHRITIS SIMULATING POORLY VASCULARIZED RENAL NEOPLASM. NON-SPECIFICITY OF ANGIOGRAPHIC CRITERIA. Barth KH, Lightman NI, Ridolfi RL, Catalona WJ *J Urol* 116: 650-2, Nov 76 (Eng) DL/77FEB216

ANGIOPATHY, DIABETIC

FRAGMENTATION HAEMOLYSIS IN PATIENTS WITH SEVERE DIABETIC ANGIOPATHY. Brunning RD, Jacob HS, Brenckman WD, Jimenez-Pasquau F, Goetz FC *Br J Haematol* 34: 283-9, Oct 76 (Eng) DL/77FEB7

[DIABETES MELLITUS, HEMOSTATIC FUNCTION, AND DIABETIC ANGIOPATHY] Zoller H, Gutmann W, Fahrner E, Gross W *Med Welt* 27: 1742-3, 10 Sep 76 (Ger) DL/77FEB258

[MACRO AND MICRO DIABETIC ANGIOPATHIES. ANATOMO-PATHOLOGIC ASPECTS] Diebold J, Camilleri JP *Rev Prat* 26: 3075-82, 11 Oct 76 (Fre) DL/77FEB380

ANTIARRHYTHMIA

ANTIARRHYTHMIA

INFLUENCE OF POLARIZING INFUSIONS ON ANTIARRHYTHMIC EFFECTS OF BETA-BLOCKERS. Rossi P, Araldi D, Cernigliaro C, Dauberio M, Carcano G *Ital Cardiol* 6: 620-7, 1976 (Eng) DL/77FEB126

ANTIBIOTIC

TISSUE CONCENTRATIONS OF ANTIBIOTICS. Mannheimer C, Brorson JE *J Antimicrob Chemother* 2: 313-4, Sep 76 (Eng) DL/77FEB156

ANTIBODY

INTERACTION OF CELL-MEMBRANE PROLACTIN RECEPTOR WITH ITS ANTIBODY. Shiu RP, Friesen HG *Biochem J* 157: 619-26, 1 Sep 76 (Eng) DL/77FEB501

ANTIBODY, INSULIN

INSULIN RESISTANT DIABETES MELLITUS WITHOUT THE PRESENCE OF INSULIN ANTIBODIES. A CASE REPORT. Pav J, Sramkova J, Matys Z *Endokrinologie* 67: 373-6, 1976 (Eng) DL/77FEB71

ANTILIPOLYTIC AGENT

THE EFFECT OF ANTILIPOLYTIC AGENTS ON CYCLIC AMP, FREE FATTY ACID AND TOTAL CATECHOLAMINE CONCENTRATIONS IN PLASMA. Strange RC, Rowe MJ, Mjos OD, Oliver MF *Acta Med Scand* 199: 421-4, 1976 (Eng) *DL/77FEB691

ANTILIPOLYTIC COMPOUND

REGULATION BY LIPOLYTIC AND ANTILIPOLYTIC COMPOUNDS OF THE PHOSPHORYLATION OF SPECIFIC PROTEINS IN ISOLATED INTACT FAT CELLS. Forn J, Greengard P *Arch Biochem Biophys* 176: 721-33, Oct 76 (Eng) DL/77FEB488

AORTA

IA STUDY OF ROENTGENOLOGIC AORTIC CALCIFICATION, GLUCOSE TOLERANCE, AND INSULIN SECRETORY RESPONSE (AUTHORS TRANSL.) Tanaka T, Seki A, Fujii J, Kuzuya N *J Jpn Soc Intern Med* 65: 569-74, 10 Jun 76 (Jpn) DL/77FEB195

PREOPERATIVE RISK FACTORS AND AORTA-CORONARY BYPASS GRAFT PATENCY. Blumlein SL, Anderson AJ, Barboriak JJ, Rimm AA, Walker J, Flemma R *J Thorac Cardiovasc Surg* 72: 778-83, Nov 76 (Eng) DL/77FEB234

CHARACTERIZATION OF LIPIDS ASSOCIATED WITH MACROMOLECULES OF THE INTERCELLULAR MATRIX OF HUMAN AORTA. Claire M, Jacotot B, Robert L *Connect Tissue Res* 4: 61-71, 1976 (Eng) *DL/77FEB544

ARGININE

INFLUENCE OF METFORMIN ON ARGinine-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ *Diabete Metab* 1: 23-8, Mar 75 (Eng) DL/77FEB84

EFFECTS OF ACUTE INSULIN WITHDRAWAL AND ADMINISTRATION ON PLASMA GLUCAGON RESPONSES TO INTRAVENOUS ARGinine IN INSULIN-DEPENDENT DIABETIC SUBJECTS. Gerich JE, Lorenzi M, Tsalkian E, Bohannon NV, Schneider V, Karam JH, Forsham PH *Diabetes* 25: 955-60, Oct 76 (Eng) DL/77FEB103

IMPARED PLASMA INSULIN RESPONSE TO ARGinine IN HYPERTHYROIDISM. IMPORTANT ROLE OF THE RISE OF BLOOD GLUCOSE IN THE SECOND PHASE OF INSULIN RELEASE INDUCED BY ARGinine. Imura H, Seino Y, Ikeda M, Taminato T, Miyamoto Y *Diabetes* 25: 961-8, Oct 76 (Eng) DL/77FEB104

GLUCAGON AND GASTRIN RELEASE BY THE ISOLATED PERFUSED DOG STOMACH IN RESPONSE TO ARGinine. Lefebvre PJ, Luyckx AS, Brassinne AH, Nizet AH *Metabolism* 25: 1447-9, Nov 76 (Eng) DL/77FEB294

IMMUNOREACTIVE GLUCAGON RESPONSES TO ARGinine IN THREE PANCREATECTOMIZED HUMANS. Palmer JP, Werner PL, Benson JW, Ensink JW *Metabolism* 25: 1483-5, Nov 76 (Eng) DL/77FEB305

ARGYROPHILIA

HISTOLOGIC CHARACTERISTICS OF INSULINOMAS AND GASTRINOMAS. VALUE OF ARGYROPHILIA, METACHROMASIA, IMMUNOHISTOLOGY, AND ELECTRON MICROSCOPY FOR THE IDENTIFICATION OF GASTROINTESTINAL AND PANCREATIC ENDOCRINE CELLS AND THEIR TUMORS. Woodtli W, Hedinger C *Virchows Arch [Pathol Anat]* 371: 331-50, 7 Oct 76 (Eng) DL/77FEB425

AROMATIC HYDROXYLASE

EFFECT OF DIETARY SUBSTITUTION OF SUCROSE AND ITS CONSTITUENT MONOSACCHARIDES ON THE ACTIVITY OF AROMATIC HYDROXYLASE AND THE LEVEL OF CYTOCHROME P-450 IN HEPATIC MICROSOMES OF GROWING RATS. Basu TK, Dickerson JW, Parke DW *Nutr Metab* 18: 302-9, 1975 (Eng) *DL/77FEB614

ARTERIAL

THE INFLUENCE OF GLUCAGON UPON THE RESPONSES OF THE HEPATIC ARTERIAL VASCULATURE TO VASODILATOR AGENTS [PROCEEDINGS]. Richardson PD, Withington PG *Br J Pharmacol* 57: 473p, Jul 76 (Eng) DL/77FEB17

ARTERIAL-HEPATIC VEIN GLUCOSE DIFFERENCES IN NORMAL AND DIABETIC MAN AFTER A GLUCOSE INFUSION AT REST AND AFTER EXERCISE. Machlum S, Jervell J, Pruett ED *Scand J Clin Lab Invest* 36: 415-22, Sep 76 (Eng) DL/77FEB391

EFFECTS OF ARTERIAL VERSUS VENOUS SAMPLING ON ANALYSIS OF GLUCOSE KINETICS IN MAN. McGuire EA, Helderma JH, Tobin JD, Andres R, Berman M *Biochem J* 157: 565-73, 1 Sep 76 (Eng) DL/77FEB500

ARTERIAL INSUFFICIENCY

[BLOOD CLOTTING AND FIBRINOLYTIC ACTIVITY AND PLATELET CHANGES IN CHRONIC PERIPHERAL ARTERIAL INSUFFICIENCY] Kaniak J, Kotschy M, Kurzawska M, Wlodarczyk J, Prastowski W *Pol Tyg Lek* 31: 1757-60, 11 Oct 76 (Pol) DL/77FEB350

ARTERIAL WALL

THE ULTRASTRUCTURE OF THE REACTION OF ARTERIAL WALLS TO CHOLESTEROL CRYSTALS IN ATHEROEMBOLISM. Warren BA, Vales O *Br J Exp Pathol* 57: 67-77, Feb 76 (Eng) *DL/77FEB518

ABNORMALITIES OF THE ARTERIAL WALL AND ITS METABOLISM IN ATHEROGENESIS. Wissler RW, Vesselinovitch D, Getz GS *Prog Cardiovasc Dis* 18: 341-69, Mar-Apr 76 (Eng) *DL/77FEB631

MECHANISM OF INHIBITION OF CHOLESTEROL UPTAKE BY THE ARTERIAL WALL. Bing RJ, Sarma JSM, Fischer R, Ikeda S *Adv Exp Med Biol* 67: 419-435, 1976 (Eng) *DL/77FEB697

ARTERIOSCLEROSIS

MONCKEBERGS ARTERIOSCLEROSIS REVISITED: OR SILVER VESSELS AMONG THE OLD. Moskowitz M, Verani M *J Can Assoc Radiol* 27: 200-2, Sep 76 (Eng) DL/77FEB162

[BLOOD LIPIDS, DIABETES AND ARTERIOSCLEROSIS] Guy-Grand B, Bigorie B, Bour H *Rev Prat* 26: 3097-107, 11 Oct 76 (Fre) DL/77FEB382

[RELATIONSHIP BETWEEN HORMONE CONCENTRATION IN PERIPHERAL BLOOD IN HYPERTENSION, ARTERIOSCLEROSIS AND OBESITY] Kokina LP, Lyskova MN, Tkacheva GA, Gabunia RI, Syzgantseva LM *Ter Arkh* 48: 81-4, 1976 (Rus) DL/77FEB410

EFFECTS OF HYPOPHYSECTOMY ON ALLOXAN-DIABETIC, ARTERIOSCLEROTIC, BREEDER VS. NON-ARTERIOSCLEROTIC, VIRGIN RATS. Wexler BC *Atherosclerosis* 25: 13-30, Oct 76 (Eng) DL/77FEB515

[PREVENTION OF ARTERIOSCLEROSIS DURING CHILDHOOD: PRELIMINARY RESEARCH] Nigro N, Benso L, Martini A, Balthieri M, Brunet MR, Iudicello P *Minerva Pediatr* 27: 288-312, 18 Feb 75 (Ita) *DL/77FEB611

ARTHRITIS, RHEUMATOID

[GROWTH HORMONE DETERMINATIONS IN CHILDREN WITH RHEUMATOID ARTHRITIS AND STILL'S SYNDROME (PROCEEDINGS)] Butenandt O, Eder R, Clados-Kelch A *Z Rheumatol* 35 suppl 4: suppl 47-53, 1976 (Ger) DL/77FEB445

ARYLSULFATASE B

GENETICS OF MURINE LIVER AND KIDNEY ARYLSULFATASE B. Daniel WL *Genetics* 82: 477-91, 25 Mar 76 (Eng) *DL/77FEB559

ASPERGILLUS NIDULANS

THE EFFECT OF GLUCOSE AND MANGANESE ON ADENOSINE-3,5-MONOPHOSPHATE LEVELS DURING GROWTH AND DIFFERENTIATION OF ASPERGILLUS NIDULANS. Zonneveld BJ *Arch Microbiol* 108: 41-4, 3 May 76 (Eng) *DL/77FEB708

ASSAY

[IN VITRO ASSAY FOR ACTH-RELEASING ACTIVITY USING ACTH RADIOIMMUNOASSAY: ACTH RELEASING ACTIVITIES BY VARIOUS DRUGS (AUTHORS TRANSL.)] Hashimoto K, Takahara J, Hosogi H, Ofuji N, Yasuhara T *Folia Endocrinol Jpn* 52: 114-24, 20 Feb 76 (Jpn) DL/77FEB82

THE SUGAR CONNECTION. REACTIVE HYPOGLYCEMIAS AND IMMUNOREACTIVE INSULIN ASSAY. Shah S *J Kans Med Soc* 77: 494, 516, Nov 76 (Eng) DL/77FEB196

A HIGHLY SENSITIVE ASSAY FOR MICROSMAL DIACYGLYCEROL ACYLTRANSFERASE ACTIVITY FROM ISOLATED FAT CELLS. Bell RM, Miller Y *Anal Biochem* 71: 436-43, Apr 76 (Eng) *DL/77FEB702

ASSAY, RADIORECEPTOR

RADIORECEPTOR ASSAY OF PLASMA NSILAS IN MAN: BASAL AND STIMULATED LEVELS IN NORMAL AND PATHOLOGIC STATES. PP. 127-40. Megyesi K, Kahn CR.

Diabetes Literature—Keyword Index

BETA-CELL

BETA ADRENERGIC RECEPTOR

ADIPOCYTE BETA-ADRENERGIC RECEPTORS. IDENTIFICATION AND SUBCELLULAR LOCALIZATION BY (-)-[3H]DIHYDROALPRENOLOL BINDING. Williams LT, Jarett L, Lefkowitz RJ *J Biol Chem* 251: 3096-104, 25 May 76 (Eng) *DL/77FEB572

THE EFFECT OF ALPHA AND BETA ADRENERGIC RECEPTOR STIMULATION ON THE ADENYLATE CYCLASE ACTIVITY OF HUMAN ADIPOCYTES. Burns TW, Langley PE *J Cyclic Nucleotide Res* 1: 321-8, 1975 (Eng) *DL/77FEB579

BETA BLOCKER

BLOOD SUGAR AND BETA-BLOCKERS [LETTER]. Deacon SP *Br Med J* 2: 1012, 23 Oct 76 (Eng) DL/77FEB31

INFLUENCE OF POLARIZING INFUSIONS ON ANTHYARRHYTHMIC EFFECTS OF BETA-BLOCKERS. Rossi P, Aralda D, Cernigliaro C, D'Auliero M, Carcano G *Ital Cardiol* 6: 620-7, 1976 (Eng) DL/77FEB126

[ROLE OF PERHEXILINE MALEATE AND BETA BLOCKING AGENTS IN THE DEVELOPMENT OF SEVERE HYPOGLYCEMIA (LETTER)] Sudre Y, Becq-Giraudon B, Pouget-Abadie JF, Demange J, Boutaud PH *Nouv Presse Med* 5: 1999, 25 Sep 76 (Fre) DL/77FEB341

[NEONATAL HYPOGLYCEMIA FOLLOWING BETA BLOCKER TREATMENT IN PREGNANCY] Forthoft B, Jacobsen JR *Ugeskr Laeger* 138: 2958-9, 15 Nov 76 (Dan) DL/77FEB419

BETA CELL

ULTRASTRUCTURE OF B-CELLS OF LANGERHANS ISLETS IN RATS AFTER THE ADMINISTRATION OF L-LEUCINE. Galabova R, Petkov P *Endocrinol Exp (Bratisl)* 10: 217-23, 1976 (Eng) DL/77FEB67

PANCREATIC BETA CELL REPLICATION: EFFECTS OF HEXOSE SUGARS. King DL, Chick WL *Endocrinology* 99: 1003-9, OCT 76 (Eng) DL/77FEB68

NEUROHUMORAL REGULATION OF THE PANCREATIC ISLET A AND B CELLS. Porte D Jr, Smith PH, Ensink JW *Metabolism* 25: 1453-6, Nov 76 (Eng) [21] DL/77FEB296

BETA RECEPTOR

[BETA RECEPTOR BLOCKING AGENTS, INSULIN AND HYPOGLYCEMIA] Froland A *Ugeskr Laeger* 138: 2970, 15 Nov 76 (Dan) DL/77FEB420

HOLOCATALYTIC STATE OF ADENYLATE CYCLASE IN TURKEY ERYTHROCYTE MEMBRANES: FORMATION WITH GUANYLYLMIDODIPHOSPHATE PLUS ISOPROTERENOL WITHOUT EFFECT ON AFFINITY OF BETA-RECEPTOR. Spiegel AM, Brown EM, Fedak SA, Woodard CJ, Aurbach GD *J Cyclic Nucleotide Res* 2: 47-56, 1976 (Eng) *DL/77FEB583

BETA-CELL

EXTRACELLULAR CALCIUM AND ADRENERGIC AND CHOLINERGIC EFFECTS ON ISLET BETA-CELL FUNCTION. Burr IM, Slonim AE, Burke V, Fletcher T *Am J Physiol* 231: 1246-9, Oct 76 (Eng) DL/77FEB476

ROTH J, GORDEN P, NEVILLE DM Jr InO Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB187

ASTROCYTOMA

REGULATION OF GLYCOGEN METABOLISM IN ASTROCYTOMA AND NEUROBLASTOMA CELLS IN CULTURE. Passonneau JV, Crites SK *J Biol Chem* 241: 2015-22, 10 Apr 76 (Eng) *DL/77FEB568

ATHEROEMBOLISM

THE ULTRASTRUCTURE OF THE REACTION OF ARTERIAL WALLS TO CHOLESTEROL CRYSTALS IN ATHEROEMBOLISM. Warren BA, Vales O *Br J Exp Pathol* 57: 67-77, Feb 76 (Eng) *DL/77FEB518

ATHEROGENESIS, METABOLISM

ABNORMALITIES OF THE ARTERIAL WALL AND ITS METABOLISM IN ATHEROGENESIS. Wissler RW, Vesselinovitch D, Getz GS *Prog Cardiovasc Dis* 18: 341-69, Mar-Apr 76 (Eng) *DL/77FEB631

ATHEROGENIC PROCESS

A MECHANISM BY WHICH HIGH-DENSITY LIPOPROTEINS MAY SLOW THE ATHEROGENIC PROCESS. Carew TE, Koschinsky T, Hayes SB, Steinberg D *Lancet* 1: 1315-7, 19 Jun 76 (Eng) *DL/77FEB607

ATHEROSCLEROSIS

RABBITS AS A MODEL FOR THE STUDY OF HYPERLIPOPROTEINEMIA AND ATHEROSCLEROSIS. Shore B, Shore V *Adv Exp Med Biol* 67: 123-41, 1976 (Eng) *DL/77FEB693

INBRED MICE AND THEIR HYBRIDS AS AN ANIMAL MODEL FOR ATHEROSCLEROSIS RESEARCH. Roberts A, Thompson JS *Adv Exp Med Biol* 67: 313-327, 1976 (Eng) *DL/77FEB695

THE NONHUMAN PRIMATES AS MODELS FOR STUDYING HUMAN ATHEROSCLEROSIS: STUDIES ON THE CHIMPANZEE, THE BABOON AND THE RHESUS MACACUS. Blaton V, Peeters H *Adv Exp Med Biol* 67: 33-64, 1976 (Eng) *DL/77FEB696

THE BABOON IN ATHEROSCLEROSIS RESEARCH: COMPARISON WITH OTHER SPECIES AND USE IN TESTING DRUGS AFFECTING LIPID METABOLISM. Howard AN *Adv Exp Med Biol* 67: 77-87, 1976 (Eng) *DL/77FEB698

ATHEROSCLEROSIS, CORONARY

THERAPY TO CONTROL CORONARY ATHEROSCLEROSIS AND ITS COMPLICATIONS. Gorlin R *Major Probl Intern Med* 11: 281-92, 1976 (Eng) DL/77FEB237

A MODEL FOR THERAPEUTIC INTERVENTIONS ON ESTABLISHED CORONARY ATHEROSCLEROSIS IN A NONHUMAN PRIMATE. Malinow MR, McLaughlin O, Papworth L, Naito HK, Lewis L, McNulty WP *Adv Exp Med Biol* 67: 3-31, 1976 (Eng) *DL/77FEB694

ATP

SEE ADENOSINE TRIPHOSPHATE

ATRIUM

EFFECT OF SECRETIN ON PACEMAKER ACTIVITY AND CONTRACTILITY IN THE ISOLATED BLOOD-PERFUSED ATRIUM OF THE

DOG. Chiba S *Clin Exp Pharmacol Physiol* 3: 167-72, Mar-Apr 76 (Eng) DL/77FEB45

ATROPHIC LESION

ATROPHIC LESIONS OF THE TONGUE: A PREVALENCE STUDY AMONG 175 DIABETIC PATIENTS. Farman AG *J Oral Pathol* 5: 255-64, Sep 76 (Eng) DL/77FEB206

AUTOANALYZER

[MICROMETHOD FOR THE DETERMINATION OF GLUCOSE WITH GLUCOSE DEHYDROGENASE IN THE AUTOANALYZER (AUTHORS TRANSL)] Scholer A, Pianezzi A *J Clin Chem Clin Biochem* 14: 189-95, Apr 76 (Ger) *DL/77FEB597

AUTOANTIBODY

SEPARATE AUTOANTIBODIES TO HUMAN PANCREATIC GLUCAGON AND SOMATOSTATIN CELLS. Bottazzo GF, Lendrum R *Lancet* 2: 873-6, 23 Oct 76 (Eng) DL/77FEB244

AUTOIMMUNE DISEASE

[DIABETES AND AUTOIMMUNE DISEASES (AUTHORS TRANSL)] Bastenica PA *Diabete Metab* 1: 3-6, Mar 75 (Fre) DL/77FEB85

AUTONOMIC NEUROPATHY

PLASMA RENIN ACTIVITY IN DIABETIC AUTONOMIC NEUROPATHY. Campbell IW, Ewing DJ, Anderson JL, Thompson JH, Horn DB, Clarke BF *Eur J Clin Invest* 6: 381-5, 10 Sep 76 (Eng) DL/77FEB73

AUTORADIOGRAPHY

KINETICS OF PROTEIN SYNTHESIS AND RELEASE IN THE STH-CELL OF THE MOUSE ANTERIOR PITUITARY AS REVEALED BY ELECTRON MICROSCOPIC AUTORADIOGRAPHY OF 3H-AMINO ACIDS. Hiura M, Komatsu M, Fujita H *Arch Histol Jpn* 38: 347-57, Feb 76 (Eng) *DL/77FEB709

AUTOTRANSPLANTATION

STUDIES WITH THE AUTOTRANSPLANTED OVINE PANCREAS: GLUCAGON AND INSULIN SECRETION. Arcus AC, Ellis MJ, Kirk RD, Beaven DW, Donald RA, Hart DS, Holland GW, Redekopp C *Aust J Biol Sci* 29: 223-36, Jul 76 (Eng) DL/77FEB496

AZO DYE

MITOCHONDRIAL FUNCTIONAL CHANGES DURING HEPATIC HYPERPLASIA AND AZO DYE CARCINOGENESIS. Higgins ES, Rogers KS, Marks PA *Chem Biol Interact* 13: 295-305, Jun 76 (Eng) *DL/77FEB532

BACTERIAL MEMBRANE

INSULIN DECREASES BACTERIAL MEMBRANE FLUIDITY. IS IT A GENERAL EFFECT IN ITS ACTION Moreno H, Farias RN *Biochem Biophys Res Commun* 72: 74-80, 7 Sep 76 (Eng) DL/77FEB508

BARIUM

CALCIUM-ANTAGONISTS AND ISLET FUNCTION. VI. EFFECTS OF BARIUM. Somers G, Devis G, van Obberghen E, Malaisse WJ *Pflugers Arch* 365: 21-8, 3 Sep 76 (Eng) DL/77FEB339

BETA-O-GLUCOPYRANOSIDES

BETA-O-GLUCOPYRANOSIDES

SYNTHESIS OF SOME BETA-O-GLUCOPYRANOSIDES HAVING A HYDROPHOBIC AGLYCON GROUP TERMINATED WITH A HYDROPHILIC GROUP. Bhattacharyya BR, Ramaswamy K, Crane RK *Carbohydr Res* 47: 167-71, Mar 76 (Eng) *DL/77FEB530

BIGUANIDE

SOME NEW ASPECTS ON THE INTERACTION OF HYPOGLYCEMIA-PRODUCING BIGUANIDES WITH BIOLOGICAL MEMBRANES. Schafer G *Biochem Pharmacol* 25: 2015-24, 15 Sep 76 (Eng) DL/77FEB512

BILAYER LIPID MEMBRANE

THE MOVEMENT OF ION PAIRS ACROSS BILAYER LIPID MEMBRANES. Mangel M, Jendrasiak GL *Chem Phys Lipids* 16: 167-80, Mar 76 (Eng) *DL/77FEB535

BINDING

EFFECTS OF IODINATION OF TYROSYL RESIDUES ON THE BINDING AND ACTION OF GLUCAGON AT ITS RECEPTOR. Lin MC, Nicosia S, Rodbell M *Biochemistry* 15: 4537-40, 5 Oct 76 (Eng) DL/77FEB9

BINDING, CYTOCHALASIN B

CHARACTERIZATION OF (3H)CYTOCHALASIN B BINDING TO THE FAT CELL PLASMA MEMBRANE. Czech MP *J Biol Chem* 251: 2905-10, 25 May 76 (Eng) *DL/77FEB570

BINDING, DIHYDROALPRENOLOL

ADIPOCYTE BETA-ADRENERGIC RECEPTORS. IDENTIFICATION AND SUBCELLULAR LOCALIZATION BY (3H)-[3H]DIHYDROALPRENOLOL BINDING. Williams LT, Jarett L, Lefkowitz RJ *J Biol Chem* 251: 3096-104, 25 May 76 (Eng) *DL/77FEB572

BINDING, INSULIN

THE EFFECTS OF MAZINDOL AND 46-034 (SANDOZ) ON GLUCOSE OXIDATION AND INSULIN BINDING BY RAT ISOLATED FAT CELLS. Harrison LC, King-Roach AP *Clin Exp Pharmacol Physiol* 3: 503-6, Sep-Oct 76 (Eng) DL/77FEB46

BINDING SITE

MITOGEN RECEPTORS IN CHICK EMBRYO FIBROBLASTS. KINETICS, SPECIFICITY, UNMASKING, AND SYNTHESIS OF 125I-INSULIN BINDING SITES. Raizada MK, Perdue JF *J Biol Chem* 251: 6445-55, 25 Oct 76 (Eng) DL/77FEB159

BIOGENIC AMINE

[THE ENDOCRINE CELLS OF THE GASTROINTESTINAL EPITHELIUM AND THE METABOLISM OF BIOGENIC AMINES IN THE GASTROINTESTINAL TRACT (AUTHORS TRANSL.)] Grube D *Prog Histochem Cytochem* 8: 1-128, 1976 (Ger) [968] DL/77FEB369

[ENDOCRINE CELLS PRODUCING POLYPEPTIDES AND BIOGENIC AMINES] Busolati G *Riv Istochim Norm Patol* 18: 95-118, 1974 (Ita) *DL/77FEB679

BIOMEMBRANE

EFFECT OF ZINC ON CELLS AND BIOMEMBRANES. Chvapil M *Med Clin North Am* 60: 799-812, Jul 76 (Eng) [42] *DL/77FEB605

BIOMEMBRANE LIPID

[SPECTROSCOPIC STUDIES ON THE SELF-ASSOCIATION MECHANISM OF BIOMEMBRANE LIPID COMPONENTS AND THEIR INTERACTION WITH WATER AND ALCOHOLS IN A NON-POLAR MEDIUM] Koval VH *Ukr Biokhim Zh* 47: 505-9, Jul-Aug 75 (Ukr) *DL/77FEB681

BIOSYNTHESIS

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabete Metab* 1: 7-11, Mar 75 (Eng) DL/77FEB90

INSULIN SECRETION AND BIOSYNTHESIS IN SUCROSE FED RATS. Laube H, Schatz H, Nierle C, Fussganger R, Pfeiffer EF *Diabetologia* 12: 441-6, Oct 76 (Eng) DL/77FEB112

BIOSYNTHESIS OF GLUCAGON. Noe BD *Metabolism* 25: 1339-41, Nov 76 (Eng) DL/77FEB269

BIOSYNTHESIS, INSULIN

EFFECTS OF IODOACETATE AND FLUORIDE ON ISLATE RESPIRATION AND INSULIN BIOSYNTHESIS. Lin BJ, Henderson MJ, Levine BB, Nagy BR, Nagy EM *Horm Metab Res* 8: 353-8, Sep 76 (Eng) DL/77FEB141

INSULIN BIOSYNTHESIS IN PANCREATIC ISLETS ISOLATED FROM STARVED MICE. Andersson A *Horm Metab Res* 8: 403-4, Sep 76 (Eng) DL/77FEB147

BIOSYNTHESIS, PROINSULIN

EFFECTS OF STREPTOZOTOCIN IN VITRO ON PROINSULIN BIOSYNTHESIS, INSULIN RELEASE AND ATP CONTENT OF ISOLATED RAT ISLETS OF LANGERHANS. Maldonado A, Trueheart PA, Renold AE, Sharp GW *Diabetologia* 12: 471-81, Oct 76 (Eng) DL/77FEB116

BIOSYNTHESIS, PROTEIN

THE EFFECTS OF POLYAMINES ON CARDIAC PROTEIN BIOSYNTHESIS. Gibson K, Harris P *Recent Adv Stud Cardiac Struct Metab* 7: 71-6, 1975 (Eng) *DL/77FEB678

BIOSYNTHETIC DEFECT

CRITERIA FOR DIAGNOSIS OF ALDOSTERONE BIOSYNTHETIC DEFECTS [LETTER]. Rossler A, Ulick S *N Engl J Med* 295: 1383, 9 Dec 76 (Eng) DL/77FEB325

BISALBUMINEMIA

BISALBUMINEMIA AND DIABETES [LETTER] Vladutiu AO *JAMA* 236: 2393, 22 Nov 76 (Eng) DL/77FEB220

BLADDER, GALL

[GALL-BLADDER CHANGES IN DIABETICS (AUTHORS TRANSL.)] Forgacs S *Radiol Diagn (Berl)* 17: 51-5, 1976 (Ger) DL/77FEB368

BLADDER, URINARY

MUSCULAR AND SEROSAL EFFECTS OF INSULIN ON ION CONTENTS OF THE FROG URINARY BLADDER. Janacek K, Rybova R, Slavikova M *Physiol Bohemoslov* 25: 385-7, 1976 (Eng) DL/77FEB367

BLINDNESS, PREVENTION

[PREVENTION OF BLINDNESS] Littrich O *Nar Zdrav* 31: 189-91, Jul-Aug 75 (Ser) DL/77FEB327

BLOCKER, BETA

BLOOD SUGAR AND BETA-BLOCKERS [LETTER]. Deacon SP *Br Med J* 2: 1012, 23 Oct 76 (Eng) DL/77FEB31

INFLUENCE OF POLARIZING INFUSIONS ON ANTIARRHYTHMIC EFFECTS OF BETA-BLOCKERS. Rossi P, Araldi D, Cernigliaro C, D'Auliero M, Carcano G *Ital Cardiol* 6: 620-7, 1976 (Eng) DL/77FEB126

[ROLE OF PERHEXILINE MALEATE AND BETA BLOCKING AGENTS IN THE DEVELOPMENT OF SEVERE HYPOGLYCEMIA (LETTER)] Sudre Y, Becq-Giraudon B, Pouget-Abadie JF, Demange J, Boutaud PH *Nouv Presse Med* 5: 1999, 25 Sep 76 (Fre) DL/77FEB341

[NEONATAL HYPOGLYCEMIA FOLLOWING BETA BLOCKER TREATMENT IN PREGNANCY] Forthoft B, Jacobsen JR *Ugeskr Laeger* 138: 2958-9, 15 Nov 76 (Dan) DL/77FEB419

BLOCKING AGENT

[BETA RECEPTOR BLOCKING AGENTS, INSULIN AND HYPOGLYCEMIA] Froland A *Ugeskr Laeger* 138: 2970, 15 Nov 76 (Dan) DL/77FEB420

BLOOD

EFFECT OF SECRETIN ON PACEMAKER ACTIVITY AND CONTRACTILITY IN THE ISOLATED BLOOD-PERFUSED ATRIUM OF THE DOG. Chiba S *Clin Exp Pharmacol Physiol* 3: 167-72, Mar-Apr 76 (Eng) DL/77FEB45

HUMAN C-PEPTIDE IMMUNOREACTIVITY (CPR) IN BLOOD AND URINE - EVALUATION OF A RADIOIMMUNOASSAY METHOD AND ITS CLINICAL APPLICATIONS. Kuzuya T, Saito T, Yoshida S, Matsuda A *Diabetologia* 12: 511-8, Oct 76 (Eng) DL/77FEB120

DISAPPEARANCE RATE OF ENDOGENOUS HUMAN C-PEPTIDE FROM BLOOD. Kuzuya T, Matsuda A *Diabetologia* 12: 519-21, Oct 76 (Eng) DL/77FEB121

INSULIN SECRETION IN MIGRAINE: INFLUENCE ON THE BLOOD LEVELS OF TRYPTOPHAN. Poloni M, Nappi G, Bono G, Roggi C, Arpesella M, Virgilio P *Monogr Neural Sci* 3: 67-70, 1976 (Eng) DL/77FEB322

[AMOUNT OF ACETONE AND ETHYL ALCOHOL IN THE BLOOD AND URINE OF PATIENTS WITH DIABETES MELLITUS AND ISCHEMIC HEART DISEASE] Kamysheva EP, Sorochkina RM, Kapatsinskaya IK, Romanova LN, Danilova MI *Sov Med* 147-8, Apr 76 (Rus) DL/77FEB403

[CHANGE OF THE CONTENT OF NUCLEIC ACIDS IN THE BLOOD OF PATIENTS WITH DIABETES MELLITUS DEPENDING ON THE SEVERITY OF THE DISEASE] Franchuk MM *Vrach Delo* 76-8, Sep 76 (Rus) DL/77FEB428

[THE GLYCOGEN CONTENT OF BLOOD AND UTERINE TISSUE IN WOMEN WITH MYOMA AND ENDOMETRIOSIS (AUTHORS

Diabetes Literature—Keyword Index

TRANS)] Muck BR, Hommel G *Arch Gynaecol* 221: 129-37, 17 Sep 76 (Ger) DL/77FEB493

INTERACTION BETWEEN PHLORETIN AND THE RED BLOOD CELL MEMBRANE. Jennings ML, Solomon AK *J Gen Physiol* 67: 381-97, Apr 76 (Eng) *DL/77FEB598

[FATTY ACID PATTERN OF LIPID FRACTIONS IN THE BLOOD. II. CONTROL PERSONS] Lohninger A, Weigl K, Riedl W, Heinkelmann W, Tolle W, Schlag G, Landauer B, Blumel G *Med Welt* 27: 923-6, 7 May 76 (Ger) *DL/77FEB609

BLOOD CLOTTING

[BLOOD CLOTTING AND FIBRINOLYTIC ACTIVITY AND PLATELET CHANGES IN CHRONIC PERIPHERAL ARTERIAL INSUFFICIENCY] Kaniak J, Kotschy M, Kurawska M, Włodarczyk J, Prastowski W *Pol Tyg Lek* 31: 1757-60, 11 Oct 76 (Pol) DL/77FEB350

BLOOD FIBRINOLYTIC ACTIVITY

EFFECT OF PHENFORMIN AND ETHYLOESTRENOL ON BLOOD FIBRINOLYTIC ACTIVITY ON RABBITS MAINTAINED ON HIGH CHOLESTEROL DIET. Sharma KK, Chowdhury NK, Sharma AL *Indian J Med Res* 64: 915-22, Jun 76 (Eng) DL/77FEB149

BLOOD FLOW

MYOCARDIAL ION AND LIPID CHANGES DURING ISCHEMIA AND CATECHOLAMINE INDUCED NECROSIS: RELATION TO REGIONAL BLOOD FLOW. Regan TJ, Markov A, Khan MI, Jestrani MU, Oldewurtel HA, Ettinger PO *Recent Adv Stud Cardiac Struct Metab* 1: 656-64, 1972 (Eng) *DL/77FEB649

BLOOD GLUCOSE

THE EFFECT OF CHANGES IN BLOOD GLUCOSE ON THE MOTILITY OF THE DUODENUM IN SHEEP. Mostaghni K, Howard BR *Cornell Vet* 66: 598-603, Oct 76 (Eng) DL/77FEB59

IMPAIRED PLASMA INSULIN RESPONSE TO ARGININE IN HYPERTHYROIDISM. IMPORTANT ROLE OF THE RISE OF BLOOD GLUCOSE IN THE SECOND PHASE OF INSULIN RELEASE INDUCED BY ARGININE. Imura H, Seino Y, Ikeda M, Taminato T, Miyamoto Y *Diabetes* 25: 961-8, Oct 76 (Eng) DL/77FEB104

BLOOD GLUCOSE MONITORING IN SYMPTOMATIC HYPOGLYCEMIA. Cole RA, Benedict GW, Margolis S, Kowarski A *Diabetes* 25: 984-8, Oct 76 (Eng) DL/77FEB108

RELATIONSHIPS BETWEEN MATERNAL GLUCOSE INTOLERANCE AND NEONATAL BLOOD GLUCOSE. Haworth JC, Dilling LA *J Pediatr* 89: 810-3, Nov 76 (Eng) DL/77FEB207

EVANESCENT EFFECTS OF HYPO- AND HYPERGLUCAGONEMIA ON BLOOD GLUCOSE HOMEOSTASIS. Sherwin R, Wahren J, Felig P *Metabolism* 25: 1381-3, Nov 76 (Eng) DL/77FEB278

[BLOOD GLUCOSE LEVELS IN PATIENTS ON HEMODIALYSIS DURING PROPRANOLOL (INDERAL) TREATMENT] Jensen HA, Laursen PA, Møller BB *Ugeskr Laeger* 138: 2956-7, 15 Nov 76 (Dan) DL/77FEB418

BLOOD GROUP

[STUDY OF THE FUCOSE-RICH OLIGOSACCHARIDES IN THE URINE OF HEALTHY AND MELITURIC SUBJECTS WITH A, B AND O BLOOD GROUPS] Strecker G, Trentesaux-Chauvet C, Poitou A, Montreuil J *Biochimie* 58: 805-14, 1976 (Fre) DL/77FEB11

BLOOD INSULIN

[BLOOD SUGAR AND BLOOD INSULIN AFTER A RAW OR COOKED MEAL IN CONTROL AND DIABETIC SUBJECTS] Havrankova J, Pesant P, Elie R, Matte R *Union Med Can* 105: 1147-51, Aug 76 (Fre) DL/77FEB421

BLOOD LIPID

[BLOOD LIPIDS, DIABETES AND ARTERIOSCLEROSIS] Guy-Grand B, Bigorie B, Bour H *Rev Prat* 26: 3097-107, 11 Oct 76 (Fre) DL/77FEB382

[BEHAVIOR OF KETONE BODIES, BLOOD LIPIDS AND OF VARIOUS LABORATORY-CHEMISTRY PARAMETERS DURING ISOCALORIC HIGH-CARBOHYDRATE AND HIGH-FAT REDUCING DIETS] Schubert WR, Vogel B, Schmullinger RM, Eggstein M *Verh Dtsch Ges Inn Med* 81: 1397-1400, 1975 (Ger) *DL/77FEB684

BLOOD, PERIPHERAL

[RELATIONSHIP BETWEEN HORMONE CONCENTRATION IN PERIPHERAL BLOOD IN HYPERTENSION, ARTERIOSCLEROSIS AND OBESITY] Kokina LP, Lyskova MN, Tkacheva GA, Gabunia RI, Syzgantseva LM *Ter Arkh* 48: 81-4, 1976 (Rus) DL/77FEB410

BLOOD PLASMA

[INFLUENCE OF ANGIOTENSIN II ON THE FATTY ACID LEVEL IN THE TRIACYLGLYCERIDES OF THE BLOOD PLASMA OF RABBITS] Mikhailov ML *Patol Fiziol Eksp Ter* 75-7, May-Jun 75 (Rus) *DL/77FEB620

BLOOD, POST-MORTEM

INSULIN IN POST-MORTEM BLOOD. A COMMENT. Oksanen A *Z Rechtsmed* 77: 311-2, 21 Apr 76 (Eng) DL/77FEB443

BLOOD PRESSURE

[THE SIGNIFICANCE OF STRESS INTENSITY FOR THE EMOTIONAL AND VISCERAL REACTIVITY, ESPECIALLY FOR BLOOD PRESSURE REGULATION] Hecht K, Hai NV, Moritz V, Hecht T *Acta Biol Med Ger* 35: 23-33, 1976 (Ger) DL/77FEB448

BLOOD SUGAR

BLOOD SUGAR AND BETA-BLOCKERS [LETTER]. Deacon SP *Br Med J* 2: 1012, 23 Oct 76 (Eng) DL/77FEB331

[SIGNIFICANCE OF BLOOD SUGAR NORMALIZATION IN THE PREVENTION OF VASCULAR COMPLICATIONS IN DIABETES MELLITUS] Tchobroutsky G, Slama G *Rev Prat* 26: 3159-71, 11 Oct 76 (Fre) [17] DL/77FEB387

[BLOOD SUGAR AND BLOOD INSULIN AFTER A RAW OR COOKED MEAL IN CONTROL AND DIABETIC SUBJECTS] Havrankova J, Pesant P, Elie R, Matte R *Union Med Can* 105: 1147-51, Aug 76 (Fre) DL/77FEB421

[COMPARATIVE QUANTITATIVE RAPID DETERMINATION OF BLOOD SUGAR BY MEANS OF VARIOUS REFLECTOMETER-SYSTEMS] Schernthaner G, Erd W, Sinzinger H, Penner E *Wien Med Wochenschr* 126: 571-4, 1 Oct 76 (Ger) DL/77FEB435

BONE

BONE AND JOINT CHANGES IN THE DIABETIC FOOT. Buchman NH *J Am Podiatry Assoc* 66: 211-26, Apr 76 (Eng) DL/77FEB175

BROMOCRYPTINE

BONE NECROSIS

WIDESPREAD JUXTA-ARTICULAR BONE NECROSIS IN A TUNNELER. Sewell JR, Jary C *Proc R Soc Med* 69: 706-7, Sep 76 (Eng) DL/77FEB361

BOWEL, SMALL

VOVULUS OF THE SMALL BOWEL IN A DIABETIC PATIENT [LETTER]. Fitzgerald GA, Colgan B, Drury MI, O'Connell FX *Br Med J* 2: 945, 16 Oct 76 (Eng) DL/77FEB29

BRACHIAL PLEXUS INJURY

[OBSTETRICAL BRACHIAL PLEXUS INJURIES. A STUDY ON PERINATAL MORBIDITY] Vrouwenarts PE, Arts JP, Kinderneuroloog PF *Ned Tijdschr Geneesk* 120: 1666-72, 2 Oct 76 (Dut) DL/77FEB329

BRAIN STEM

SUBACUTE ENCEPHALOMENINGITIS STRICTLY INVOLVING THE BRAIN STEM AND DIABETES MELLITUS. Shuangshoti S, Viratchai C, Sreesai M *J Med Assoc Thai* 59: 464-9, Oct 76 (Eng) DL/77FEB198

BREAD

[HIGH-PROTEIN BREAD FOR DIABETICS] Rojszkowa E, Szelnerowa T, Banecki H, Laweck J *Pol Tyg Lek* 31: 1729-31, 4 Oct 76 (Pol) DL/77FEB348

BREAST CANCER

[HIGH RISK FACTORS OF BREAST CANCER] Hardy A, Loriaux C *J Gynecol Obstet Biol Reprod (Paris)* 5: 657-73, Jul - Aug 76 (Fre) [89] DL/77FEB177

BREAST CELL

[ANALYSIS OF BREAST CELL DIFFERENTIATION IN TISSUE CULTURE UNDER THE INFLUENCE OF HORMONES] Kalantar IL, Khristaleva GI, Nechipurenko LV, Medvedev IK *Tsitologiya* 18: 1014-9, Aug 76 (Rus) DL/77FEB416

BREAST TISSUE

GLUCOSE UPTAKE BY NORMAL HUMAN BREAST TISSUE IN ORGAN CULTURE. INFLUENCE OF INSULIN AND OTHER ADDITIVES. van Bogaert LJ *Cell Tissue Res* 171: 535-41, 1 Sep 76 (Eng) DL/77FEB40

BREEDER

EFFECTS OF HYPOPHYSECTOMY ON ALLOXAN-DIABETIC, ARTERIOSCLEROTIC, BREEDER VS. NON-ARTERIOSCLEROTIC, VIRGIN RATS. Wexler BC *Atherosclerosis* 25: 13-30, Oct 76 (Eng) DL/77FEB515

BRITISH

SMOKING AND OTHER RISK FACTORS FOR CORONARY HEART-DISEASE IN BRITISH CIVIL SERVANTS. Reid DD, Hamilton PJ, McCartney P, Rose G, Jarrett RJ, Keen H *Lancet* 2: 979-84, 6 Nov 76 (Eng) DL/77FEB253

BROMOCRYPTINE

EFFECTS OF GROWTH HORMONE RELEASE-INHIBITING HORMONE AND BROMOCRYPTINE (CB 154) IN STATES OF ABNORMAL PITUITARY-ADRENAL FUNCTION. Benker G, Hackenberg K, Hamburger B, Reinwein D

Diabetes Literature—Keyword Index

2-BROMO-ALPHA-ERGOCRYPTINE

Clin Endocrinol (Oxf) 5: 187-90, Mar 76 (Eng)
*DL/77FEB542

2-BROMO-ALPHA-ERGOCRYPTINE

SEROTONINERGIC CONTROL OF HUMAN GROWTH HORMONE SECRETION: THE ACTIONS OF L-DOPA AND 2-BROMO-ALPHA-ERGOCRYPTINE. PP. 222-35. Smythe GA, Compton PJ, Lazarus L. *In* *Peile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381* 1975. (Eng) DL/77FEB189

BROWN ADIPOSE TISSUE

PROTEIN KINASES AND THEIR SUBSTRATES IN BROWN ADIPOSE TISSUE FROM NEWBORN RATS. Knight BL. *Biochim Biophys Acta* 429: 798-808, 13 May 76 (Eng) *DL/77FEB521

BUFORMIN

INTESTINAL ABSORPTION CHARACTERISTICS OF BUFORMIN AND PHENFORMIN IN RATS. Kojima S, Tanaka R, Hamada C. *Chem Pharm Bull (Tokyo)* 24: 1555-60, Jul 76 (Eng) DL/77FEB42

BURN

IMPAIRED GLUCOSE FLOW IN BURNED PATIENTS WITH GRAM-NEGATIVE SEPSIS. Wilmore DW, Mason AD Jr, Pruitt BA Jr. *Surg Gynecol Obstet* 143: 720-4, Nov 76 (Eng) DL/77FEB408

BYPASS

PREOPERATIVE RISK FACTORS AND AORTA-CORONARY BYPASS GRAFT PATENCY. Blumlein SL, Anderson AJ, Barboriak JJ, Rimm AA, Walker J, Flemma R. *J Thorac Cardiovasc Surg* 72: 778-83, Nov 76 (Eng) DL/77FEB234

CALCIFICATION

[A STUDY OF ROENTGENOLOGIC AORTIC CALCIFICATION, GLUCOSE TOLERANCE, AND INSULIN SECRETORY RESPONSE (AUTHORS TRANSL)] Tanaka T, Seki A, Fujii J, Kuzuya N. *Jpn Soc Intern Med* 65: 569-74, 10 Jun 76 (Jpn) DL/77FEB195

CALCIUM

THE ROLE OF CALCIUM IN GLUCAGON RELEASE, INTERACTIONS BETWEEN GLUCOSE AND CALCIUM. Leclercq-Meyer V, Marchand J, Malaisse WJ. *Diabetologia* 12: 531-8, Oct 76 (Eng) DL/77FEB124

CALCIUM AND STIMULUS-SECRETION COUPLING IN PANCREATIC ISLET CELLS. PP. 203-10. Matthews EK. *In* *Carafoli E, et al., ed. Calcium transport in contraction and secretion. Amsterdam, North-Holland, 1975. QV 276 161c* 1975. (Eng) DL/77FEB178

INSULIN RELEASE AND THE MOVEMENTS OF CALCIUM IN PANCREATIC ISLETS. PP. 211-26. Malaisse WJ, Herchuelz A, Levy J, Somers G, Devis G. *In* *Carafoli E, et al., ed. Calcium transport in contraction and secretion. Amsterdam, North-Holland, 1975. QV 276 161c* 1975. (Eng) DL/77FEB179

CALCIUM ANTAGONIST

CALCIUM-ANTAGONISTS AND ISLET FUNCTION. VI. EFFECTS OF BARIUM. Somers G, Devis G, van Ooberghen E, Malaisse WJ. *Pfluegers Arch* 365: 21-8, 3 Sep 76 (Eng) DL/77FEB339

CALCIUM, EXTRACELLULAR

EXTRACELLULAR CALCIUM AND ADRENERGIC AND CHOLINERGIC EFFECTS ON ISLET BETA-CELL FUNCTION. Burr IM, Slonim AE, Burke V, Fletcher T. *Am J Physiol* 231: 1246-9, Oct 76 (Eng) DL/77FEB476

CALCIUM ION

AN EXPERIMENT ELIMINATING THE ROTATING CARRIER MECHANISM FOR THE ACTIVE TRANSPORT OF CA ION IN SARCOPLASMIC RETICULUM MEMBRANES. Dutton A, Rees ED, Singer SJ. *Proc Natl Acad Sci USA* 73: 1532-6, May 76 (Eng) *DL/77FEB624

CALCIUM POOL

THE EFFECTS OF HORMONES AND PROSTAGLANDINS ON THE CALCIUM POOLS IN CULTURED MYOCARDIAL CELLS. Moura AM, Simpkins H. *Mol Cell Endocrinol* 5: 349-57, OCT 76 (Eng) DL/77FEB98

CALLIPHORA VOMITORIA

THE ACTION OF THE EXCRETORY APPARATUS OF CALLIPHORA VOMITORIA IN HANDLING INJECTED SUGAR SOLUTION. Knowles G. *J Exp Biol* 64: 131-40, Feb 76 (Eng) *DL/77FEB596

CALORIC INTAKE

[EFFECTS OF EXCESSIVE CALORIC INTAKE IN MAN] Rath R. *Cesk Gastroenterol Vyz* 30: 107-10, Mar 76 (Cze) *DL/77FEB531

CANCER

CANCER MORTALITY AND SACCHARIN CONSUMPTION IN DIABETICS. Armstrong B, Lea AJ, Adelstein AM, Donovan JW, White GC, Ruttle S. *Br J Prev Soc Med* 30: 151-7, Sep 76 (Eng) DL/77FEB19

CANCER, BREAST

[HIGH RISK FACTORS OF BREAST CANCER] Hardy A, Loriaux C. *J Gynecol Obstet Biol Reprod (Paris)* 5: 657-73, Jul - Aug 76 (Fre) [89] DL/77FEB177

CANDIDA, ORAL

ORAL CANDIDA, DEBILITATING DISEASE AND ATROPHIC LESIONS OF THE TONGUE. Farman AG, Nutt G. *J Biol Buccale* 4: 203-26, SEP 76 (Eng) DL/77FEB158

CAPILLARY

IS SUBSTRATE SUPPLY OF THE MYOCARDIUM LIMITED BY CAPILLARY EXCHANGE. Kammermeier H, Kammermeier B. *Recent Adv Stud Cardiac Struct Metab* 7: 61-7, 1975 (Eng) *DL/77FEB677

CARBOHYDRATE

[FASTING VALUES OF CARBOHYDRATE- AND LIPID METABOLISM IN HEALTHY SUBJECTS AND IN PATIENTS WITH DIABETES MELLITUS] Berg G, Matzki F, Sailer D. *Fortschr Med* 94: 1541-3, 7 Oct 76 (Ger) DL/77FEB135

EFFECTS OF EXERCISE AND PHYSICAL TRAINING ON CARBOHYDRATE AND LIPID METABOLISM IN MAN. Bjontorp P. *Adv Cardiol* 18: 158-66, 1976 (Eng) DL/77FEB462

CARBOHYDRATE PREFERENCES OF MAMMALIAN CELLS. Burns RL, Rosenberger PG,

Klebe RJ. *J Cell Physiol* 88: 307-16, July 76 (Eng) *DL/77FEB576

LITHIUM EFFECTS ON CARBOHYDRATE AND ELECTROLYTE METABOLISM. PP. 319-22. Mellerup ET, Plenge P, Rafaeelsen OJ. *In* *Ban TA, et al., ed. Psychopharmacology, sexual disorders and drug abuse. Amsterdam, North-Holland, 1973. QV 77 P973* 1972. (Eng) *DL/77FEB584

STEROL BALANCE IN HYPERLIPIDEMIC PATIENTS AFTER DIETARY EXCHANGE OF CARBOHYDRATE FOR FAT. Ahrens EH Jr. *J Lipid Res* 17: 97-106, Mar 76 (Eng) *DL/77FEB595

[BEHAVIOR OF KETONE BODIES, BLOOD LIPIDS AND OF VARIOUS LABORATORY-CHEMISTRY PARAMETERS DURING ISOCALORIC HIGH-CARBOHYDRATE AND HIGH-FAT REDUCING DIETS] Schubert WR, Vogel B, Schmullig RM, Eggstein M. *Verh Dtsch Ges Inn Med* 81: 1397-1400, 1975 (Ger) *DL/77FEB684

CARBOHYDRATE METABOLISM

THE EFFECT OF ORAL RITODRINE ON MATERNAL AND FETAL CARBOHYDRATE METABOLISM. Blouin D, Murray MA, Beard RW. *Br J Obstet Gynaecol* 83: 711-5, Sep 76 (Eng) DL/77FEB8

DISORDERS OF CARBOHYDRATE METABOLISM IN INFANCY. Cornblath M, Schwartz R. *Major Probl Clin Pediatr* 3: 1-483, 1976 (Eng) DL/77FEB235

[CARBOHYDRATE METABOLISM AND ENDOMETRIAL CARCINOMA] Orlandi C. *Minerva Ginecol* 28: 219-26, Mar 76 (Ita) DL/77FEB330

CHANGES IN CARBOHYDRATE METABOLISM AND ENDOCRINE FUNCTION OF REMNANT PANCREAS AFTER MAJOR PANCREATIC RESECTION. Yasugi H, Mizumoto R, Sakurai H, Honjo I. *Am J Surg* 132: 577-80, Nov 76 (Eng) DL/77FEB477

CARBOHYDRATE TOLERANCE

CARBOHYDRATE TOLERANCE AND OBESITY. Bredidahi HD. *Med J Aust* 1: 9-10, 19 Jun 76 (Eng) DL/77FEB319

CARBOXYLIC ACID

INSULIN RELEASE AND PHOSPHATE ION EFFLUX FROM RAT PANCREATIC ISLETS INDUCED BY L-LEUCINE AND ITS NON-METABOLIZABLE ANALOGUE, 2-AMINO-BICYCLO[2.2.1]HEPTANE-2-CARBOXYLIC ACID. Freinkel N, Younsi CE, Dawson RMC. *Proc Natl Acad Sci USA* 73: 3403-7, Oct 76 (Eng) DL/77FEB358

CARCINOGENESIS

MITOCHONDRIAL FUNCTIONAL CHANGES DURING HEPATIC HYPERPLASIA AND AZO DYE CARCINOGENESIS. Higgins ES, Rogers KS. *Marks PA Chem Biol Interact* 13: 295-305, Jun 76 (Eng) *DL/77FEB532

CARCINOMA, ENDOMETRIAL

[CARBOHYDRATE METABOLISM AND ENDOMETRIAL CARCINOMA] Orlandi C. *Minerva Ginecol* 28: 219-26, Mar 76 (Ita) DL/77FEB330

PLASMA LEVELS OF FRACTIONATED ESTROGENS AND PITUITARY HORMONES IN ENDOMETRIAL CARCINOMA. Benjamin F, Deutsch S. *Am J Obstet Gynecol* 126: 638-47, 15 Nov 76 (Eng) DL/77FEB470

Diabetes Literature—Keyword Index

CELL

CARCINOMA, ISLET CELL

PANCREATIC ISLET CELL CARCINOMA IN A DOG TREATED WITH STREPTOZOTOCIN. Meyer DJ *Am J Vet Res* 37: 1221-3, Oct 76 (Eng) DL/77FEB487

CARDIAC

ASSOCIATION OF GLYCOGENOLYSIS WITH CARDIAC SARCOPLASMIC RETICULUM. Entam ML, Kanike K, Goldstein MA, Nelson TE, Bornet EP, Futch TW, Schwartz A *J Biol Chem* 251: 3140-6, 25 May 76 (Eng) *DL/77FEB575

THE EFFECTS OF POLYAMINES ON CARDIAC PROTEIN BIOSYNTHESIS. Gibson K, Harris P *Recent Adv Stud Cardiac Struct Metab* 7: 71-6, 1975 (Eng) *DL/77FEB678

CARDIAC HYPERTROPHY

MYOCARDIAL METABOLIC CHANGES IN CARDIAC HYPERTROPHY AND HEART FAILURE. Fizeleva A, Fizeleva A *Recent Adv Stud Cardiac Struct Metab* 1: 200-12, 1972 (Eng) *DL/77FEB639

ADRENERGIC NEUROHUMORS IN THE HEART OF HAMSTERS WITH HEREDITARY MYOPATHY DURING CARDIAC HYPERTROPHY AND FAILURE. Angelakos ET, Carballo LC, Daniels JB, King MP, Bajusz E *Recent Adv Stud Cardiac Struct Metab* 1: 262-78, 1972 (Eng) *DL/77FEB641

CARDIAC INFARCTION

[CARDIAC INFARCTION IN THE ELDERLY] Konu V *Duodecim* 92: 1028-34, 1976 (Fin) DL/77FEB65

CARDIAC METABOLISM

EFFECT OF AGE ON CARDIAC METABOLISM. Sobel H *Recent Adv Stud Cardiac Struct Metab* 1: 101-11, 1972 (Eng) *DL/77FEB633

INFLUENCE OF ASSISTED CIRCULATION ON CARDIAC METABOLISM. Ziegelhoffer A, Siska K, Holec V, Fedulesova M, Frolo I *Recent Adv Stud Cardiac Struct Metab* 1: 484-91, 1972 (Eng) *DL/77FEB646

CARDIAC MUSCLE

CONTROL OF PROTEIN BALANCE IN HYPERTROPHIED CARDIAC MUSCLE. Zak R, Martin AF, Reddy MK, Rabinowitz M *Circ Res* 38: i45-50, May 76 (Eng) *DL/77FEB537

PARTIAL PURIFICATION OF THE NADPH-DEPENDENT ALDEHYDE REDUCTASE FROM BOVINE CARDIAC MUSCLE. Kawalek JC, Gilbertson JR *Arch Biochem Biophys* 173: 649-57, Apr 76 (Eng) *DL/77FEB703

CARDIAC OVERLOAD

RESPONSES OF THE HEART MITOCHONDRIA TO CHRONIC CARDIAC OVERLOAD AND PHYSICAL EXERCISE. Wollenberger A *Recent Adv Stud Cardiac Struct Metab* 1: 213-22, 1972 (Eng) *DL/77FEB640

EARLY CHANGES IN ACUTE CARDIAC OVERLOAD: STUDIES ON ADENYL CYCLASE ACTIVITY, CYCLIC 35-AMP, AND MYOSIN SYNTHESIS. Schreiber SS, Klein I, Oratz M, Evans C, Gueyikian I, Rothschild MA *Recent Adv Stud Cardiac Struct Metab* 1: 44-58, 1972 (Eng) *DL/77FEB645

CARDIOGENIC SHOCK

MYOCARDIAL METABOLISM IN EXPERIMENTAL CARDIOGENIC SHOCK. Cronin RF,

Zsoter T, Hollenberg CH *Recent Adv Stud Cardiac Struct Metab* 1: 95-100, 1972 (Eng) *DL/77FEB656

CARDIOVASCULAR COMPLICATION

[CARDIOVASCULAR COMPLICATIONS OF DIABETES] Darnaud C, Darnaud J *Rev Prat* 26: 3111-7, 11 Oct 76 (Fre) DL/77FEB383

CARE

DIABETIC FOOT CARE EDUCATION IN A PODIATRY CLINIC: A PILOT STUDY. Scarlet JJ, Conner JC, Monastersky C *J Am Podiatry Assoc* 66: 798-800, Oct 76 (Eng) DL/77FEB173

CARNITINE PALMITYLTRANSFERASE

CARNITINE PALMITYLTRANSFERASE ACTIVITY DURING MYOCARDIAL ISCHEMIA AND AT LOW IONIC STRENGTHS. McMillin Wood J *Recent Adv Stud Cardiac Struct Metab* 7: 335-9, 1975 (Eng) *DL/77FEB673

CARRIER

AN EXPERIMENT ELIMINATING THE ROTATING CARRIER MECHANISM FOR THE ACTIVE TRANSPORT OF CA ION IN SARCOPLASMIC RETICULUM MEMBRANES. Dutton A, Rees ED, Singer SJ *Proc Natl Acad Sci USA* 73: 1532-6, May 76 (Eng) *DL/77FEB624

CATARACT, DIABETIC

[THE INFLUENCE OF CORTISOL TREATMENT ON THE DEVELOPMENT OF DIABETIC CATARACTS IN RATS (AUTHORS TRANSL)] Koch HR, Hillenbink M, Liappis N *Albrecht von Graefes Arch Klin Ophthalmol* 200: 211-22, 1976 (Ger) DL/77FEB482

INHIBITION OF LENS ALDOSE REDUCTASE BY FLAVONOIDS—THEIR POSSIBLE ROLE IN THE PREVENTION OF DIABETIC CATARACTS. Varma SD, Kinoshita JH *Biochem Pharmacol* 25: 2505-13, 15 NOV 76 (Eng) DL/77FEB514

CATARACTOUS

GAS CHROMATOGRAPHIC STUDY OF FREE POLYOLS AND ALDOSES IN CATARACTOUS HUMAN LENS TISSUE. Pfaffenberger CD, Szafrancik J, Horning EC *J Chromatogr* 126: 535-45, 3 Nov 76 (Eng) DL/77FEB164

CATECHOLAMINE

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL)] Leclercq-Meyer V, Malaisse WJ *Diabetes Metab* 1: 119-22, Jun 75 (Fre) DL/77FEB93

STUDIES ON THE ROLE OF CAMP-DEPENDENT PROTEIN KINASE IN THE ACTIONS OF GLUCAGON AND CATECHOLAMINES ON LIVER GLYCOGEN METABOLISM. Cherrington AD, Exton JH *Metabolism* 25: 1351-4, Nov 76 (Eng) DL/77FEB272

CATECHOLAMINES AND MYOCARDIAL INFARCTION. Young RC, Thomas M, Evans ME, Opie LH *Recent Adv Stud Cardiac Struct Metab* 1: 163-8, 1972 (Eng) *DL/77FEB637

MYOCARDIAL ION AND LIPID CHANGES DURING ISCHEMIA AND CATECHOLAMINE INDUCED NECROSIS: RELATION TO REGIONAL BLOOD FLOW. Regan TJ, Markov A, Khan MI, Jesrani MU, Oldewurtel HA, Ettinger PO *Recent Adv Stud Cardiac Struct Metab* 1: 656-64, 1972 (Eng) *DL/77FEB649

PARTICIPATION OF CATECHOLAMINES AND CORTICAL HORMONES IN THE MYOCARDIAL METABOLIC ADAPTATION TO MECHANICAL OVERLOAD OF THE HEART. Fizeleva A, Fizeleva A *Recent Adv Stud Cardiac Struct Metab* 1: 814-27, 1972 (Eng) *DL/77FEB655

THE EFFECT OF ANTILIPOLYTIC AGENTS ON CYCLIC AMP, FREE FATTY ACID AND TOTAL CATECHOLAMINE CONCENTRATIONS IN PLASMA. Strange RC, Rowe MJ, Mjos OD, Oliver MF *Acta Med Scand* 199: 421-4, 1976 (Eng) *DL/77FEB691

CATECHOLAMINE METABOLISM

CATECHOLAMINE METABOLISM IN THIAMINE-DEFICIENT RATS. Iwata H *J Nutr Sci Vitaminol (Tokyo)* 22 SUPPL: 25-7, Aug 76 (Eng) DL/77FEB205

CATION, DIVALENT

REGULATION OF HEPATIC ADENYLATE CYCLASE BY GLUCAGON, GTP, DIVALENT CATIONS, AND ADENOSINE. Rodbell M, Londos C *Metabolism* 25: 1347-9, Nov 76 (Eng) DL/77FEB271

THE EFFECT OF DIVALENT CATIONS ON BOVINE SPERMATOZOAL ADENYLATE CYCLASE ACTIVITY. Braun T *J Cyclic Nucleotide Res* 1: 271-81, 1975 (Eng) *DL/77FEB581

CELL

STUDIES OF HUMAN DIPLOID FIBROBLAST GROWTH. I. RESPONSES OF NORMAL AND HYPOPHYSECTOMIZED CELLS TO FIBROBLAST GROWTH FACTOR, INSULIN, AND SERUM. Jones KL, Addison J *J Clin Endocrinol Metab* 43: 721-9, Oct 76 (Eng) DL/77FEB166

CALCIUM AND STIMULUS-SECRETION COUPLING IN PANCREATIC ISLET CELLS. PP. 203-10. Matthews EK *In* O Carafoli E, et al., ed. *Calcium transport in contraction and secretion*. Amsterdam, North-Holland, 1975. QV 276 161c 1975. (Eng) DL/77FEB178

MITOCHONDRIAL METABOLISM AND CELL REGULATION. PP. 79-107. Williamson JR *In* O Packer L, Gomez-Puyou A, ed. *Mitochondria*. New York, Academic Press, 1976. QH 603.M5 M684 1975. (Eng) *DL/77FEB517

EFFECT OF ZINC ON CELLS AND BIOMEMBRANES. Chvapil M *Med Clin North Am* 60: 799-812, Jul 76 (Eng) [42] *DL/77FEB605

LIPOLYSIS AS A FUNCTION OF CELL NUMBERS AND FAT CONTENT: COMPARISON BETWEEN ISOLATED RAT AND DOG ADIPOCYTES. Hotta N, Sirek OV, Sirek A, Policova Z, Pahlavi Med J 7: 167-79, Apr 76 (Eng) *DL/77FEB618

HUMAN ADIPOSE TISSUE IN CULTURE. VI. EFFECT OF AGE ON CELL SIZE AND LIPOLYSIS. Nyberg G, Mellgren G, Smith U *Acta Paediatr Scand* 65: 313-8, May 76 (Eng) *DL/77FEB687

EFFECTS OF DENSITY-DEPENDENT INHIBITION OF GROWTH ON PHOSPHOLIPID METABOLISM IN MONOLAYER CULTURES OF ANIMAL CELLS. Gallaher WR, Blough HA *Arch Biochem Biophys* 173: 738-46, Apr 76 (Eng) *DL/77FEB704

KINETICS OF PROTEIN SYNTHESIS AND RELEASE IN THE STH-CELL OF THE MOUSE ANTERIOR PITUITARY AS REVEALED BY ELECTRON MICROSCOPIC AUTORADIOGRAPHY OF 3H-AMINO ACIDS. Hiura M, Komatsu M, Fujita H *Arch Histol Jpn* 38: 347-57, Feb 76 (Eng) *DL/77FEB709

Diabetes Literature—Keyword Index

L-CELL

L-CELL

INDUCTION OF ORNITHINE DECARBOXYLASE IN CULTURED MOUSE L CELLS. I. EFFECTS OF CELLULAR GROWTH, HORMONES, AND ACTINOMYCIN D. Yamasaki Y, Ichihara A *J Biochem (Tokyo)* 80: 557-62, Sep 76 (Eng) DL/77FEB157

CELL, 3T3

STIMULATION OF DNA SYNTHESIS, CELL MULTIPLICATION, AND ORNITHINE DECARBOXYLASE IN 3T3 CELLS BY MULTIPLICATION STIMULATING ACTIVITY (MSA). Nissley SP, Passamani J, Short P *J Cell Physiol* 89: 393-402, NOV 76 (Eng) DL/77FEB163

CELL, ACINAR

THE POTENTIATING INFLUENCES OF INSULIN ON PANCREOZYMIN-INDUCED HYPERPOLARIZATION AND AMYLASE RELEASE IN THE PANCREATIC ACINAR CELL. Kanno T, Saito A *J Physiol (Lond)* 261: 505-21, Oct 76 (Eng) DL/77FEB213

CELL, ALPHA

GUT HORMONES AND THE ALPHA CELL. Bloom SR, Iversen J *Metabolism* 25: 1457-8, Nov 76 (Eng) DL/77FEB297

ALPHA CELL FUNCTION IN DIABETES MELITUS. Gerich JE *Metabolism* 25: 1513-6, Nov 76 (Eng) DL/77FEB312

EVIDENCE FOR AN INSULIN-INDEPENDENT ALPHA-CELL ABNORMALITY IN HUMAN DIABETES. Bennett PH, Aronoff SL, Unger RH *Metabolism* 25: 1527-9, Nov 76 (Eng) DL/77FEB316

FUNCTIONAL DIFFERENTIATION OF THE CHICK ENDOCRINE PANCREAS. II. THE ALPHA CELLS AND GLUCAGON. Benzo CA, Stearns SB *Am J Anat* 147: 273-9, Nov 76 (Eng) DL/77FEB465

CELL, ALPHA-1

SOMATOSTATIN, A HORMONE OF THE ALPHA 1-CELLS OF THE PANCREATIC ISLETS AND ITS INFLUENCE ON THE SECRETION OF INSULIN AND GLUCAGON. PP. 216-21. Efendic S, Hokfelt T, Luft R *In: Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB190*

CELL, BETA

ULTRASTRUCTURE OF B-CELLS OF LANGERHANS ISLETS IN RATS AFTER THE ADMINISTRATION OF L-LEUCINE. Galabova R, Petkov P *Endocrinol Exp (Bratisl)* 10: 217-23, 1976 (Eng) DL/77FEB67

PANCREATIC BETA CELL REPLICATION: EFFECTS OF HEXOSE SUGARS. King DL, Chick WL *Endocrinology* 99: 1003-9, OCT 76 (Eng) DL/77FEB68

NEUROHUMORAL REGULATION OF THE PANCREATIC ISLET A AND B CELLS. Porte D Jr, Smith PH, Ensink JW *Metabolism* 25: 1453-6, Nov 76 (Eng) [21] DL/77FEB296

EXTRACELLULAR CALCIUM AND ADRENERGIC AND CHOLINERGIC EFFECTS ON ISLET BETA-CELL FUNCTION. Burr IM, Slonim AE, Burke V, Fletcher T *Am J Physiol* 231: 1246-9, Oct 76 (Eng) DL/77FEB476

CELL, BREAST

[ANALYSIS OF BREAST CELL DIFFERENTIATION IN TISSUE CULTURE UNDER THE INFLUENCE OF HORMONES] Kalantar IL, Khurstaleva GI, Nechipurenko LV, Medvedev IK *Tsitologia* 18: 1014-9, Aug 76 (Rus) DL/77FEB416

CELL DIFFERENTIATION

[ANALYSIS OF BREAST CELL DIFFERENTIATION IN TISSUE CULTURE UNDER THE INFLUENCE OF HORMONES] Kalantar IL, Khurstaleva GI, Nechipurenko LV, Medvedev IK *Tsitologia* 18: 1014-9, Aug 76 (Rus) DL/77FEB416

DIFFERENTIAL SYNTHESIS OF CRYSTALLIN AND NONCRYSTALLIN POLYPEPTIDES DURING LENS FIBER CELL DIFFERENTIATION IN VITRO. Beebe DC, Piatigorsky Exp Eye Res 22: 237-49, Mar 76 (Eng) *DL/77FEB552

CELL, ENDOCRINE

[THE ENDOCRINE CELLS OF THE GASTROINTESTINAL EPITHELIUM AND THE METABOLISM OF BIOGENIC AMINES IN THE GASTROINTESTINAL TRACT (AUTHORS TRANSL)] Grube D *Prog Histochem Cytochem* 8: 1-128, 1976 (Ger) [968] DL/77FEB369

HISTOLOGIC CHARACTERISTICS OF INSULINOMAS AND GASTRINOMAS. VALUE OF ARGYROPHILIA, METACHROMASIA, IMMUNOHISTOLOGY, AND ELECTRON MICROSCOPY FOR THE IDENTIFICATION OF GASTROINTESTINAL AND PANCREATIC ENDOCRINE CELLS AND THEIR TUMORS. Woodtli W, Hedinger C *Virchows Arch [Pathol Anat]* 371: 331-50, 7 Oct 76 (Eng) DL/77FEB425

[ENDOCRINE CELLS PRODUCING POLYPEPTIDES AND BIOGENIC AMINES] Bussolati G *Riv Istochim Norm Patol* 18: 95-118, 1974 (Ita) *DL/77FEB679

CELL, FAT

THE EFFECTS OF MAZINDOL AND 46-034 (SANDOZ) ON GLUCOSE OXIDATION AND INSULIN BINDING BY RAT ISOLATED FAT CELLS. Harrison LC, King-Roach AP *Clin Exp Pharmacol Physiol* 3: 503-6, Sep-Oct 76 (Eng) DL/77FEB46

REGULATION BY LIPOLYTIC AND ANTILIPOLYTIC COMPOUNDS OF THE PHOSPHORYLATION OF SPECIFIC PROTEINS IN ISOLATED INTACT FAT CELLS. Forn J, Greengard P *Arch Biochem Biophys* 176: 721-33, Oct 76 (Eng) DL/77FEB488

CHARACTERIZATION OF (3H)CYTOCHALASIN B BINDING TO THE FAT CELL PLASMA MEMBRANE. Czech MP *J Biol Chem* 251: 2905-10, 25 May 76 (Eng) *DL/77FEB570

HUMAN FAT CELL SIZING--A QUICK, SIMPLE METHOD. Ashwell M, Priest P, Bondoux M, Sower C, McPherson CK *J Lipid Res* 17: 190-2, Mar 76 (Eng) *DL/77FEB594

A HIGHLY SENSITIVE ASSAY FOR MICROSOIAL DIACYLGLYCEROL ACYLTRANSFERASE ACTIVITY FROM ISOLATED FAT CELLS. Bell RM, Miller Y *Anal Biochem* 71: 436-43, Apr 76 (Eng) *DL/77FEB702

SOME ASPECTS OF FATTY ACID OXIDATION IN ISOLATED FAT-CELL MITOCHONDRIA FROM RAT. Harper RD, Saggerson ED *Biochem J* 152: 485-94, Dec 75 (Eng) *DL/77FEB711

A RAPID IMMUNOLOGICAL PROCEDURE FOR THE ISOLATION OF HORMONALLY SENSITIVE RAT FAT-CELL PLASMA MEMBRANE. Luzio JP, Newby AC, Hales CN *Biochem J* 154: 11-21, 15 Jan 76 (Eng) *DL/77FEB714

CELL, HEART

ERICIC ACID METABOLISM BY CULTURED BEATING HEART CELLS OF THE POST-NATAL RAT. Pinson A, Padieu P *Recent Adv Stud Cardiac Struct Metab* 7: 29-40, 1975 (Eng) *DL/77FEB672

CELL, ISLET

NEW TYPES OF ISLET CELLS IN A CYCLOSTOME, PETROMYZON MARINUS L. Brinn JE, Eppl A *Cell Tissue Res* 171: 317-29, 26 Aug 76 (Eng) DL/77FEB39

PANCREATIC ISLET CELL TRANSPLANTATION AND DIABETES THERAPY. Monaco AP, Codish SD *Compr Ther* 2: 29-37, Nov 76 (Eng) DL/77FEB50

CLINICAL CORRELATIONS OF SERUM PROINSULIN-LIKE MATERIAL IN ISLET CELL TUMOURS. Alsever RN, Stjernholm MR, Sussman KE, Mako ME, Rubenstein AH *Diabetologia* 12: 527-30, Oct 76 (Eng) DL/77FEB123

FOETAL RAT PANCREAS IN ORGAN CULTURE. EFFECT OF CORTICOSTERONE CONCENTRATIONS ON THE ACINAR AND ISLET CELL COMPONENTS. McEvoy RC, Hegre OD, Lazarow A *Differentiation* 6: 17-26, 16 Mar 76 (Eng) DL/77FEB125

PANCREATIC ISLET CELL CARCINOMA IN A DOG TREATED WITH STREPTOZOTOCIN. Meyer DJ *Am J Vet Res* 37: 1221-3, Oct 76 (Eng) DL/77FEB487

CELL, KUPFFER

STUDIES ON UREA SYNTHESIS, INSULIN DEGRADATION AND PHAGOCYTOSIS BY ISOLATED RAT KUPFFER CELLS. Wagle SR, Hofmann F, Decker K *Biochem Biophys Res Commun* 72: 448-55, 20 SEP 76 (Eng) DL/77FEB509

CELL, MAMMALIAN

CARBOHYDRATE PREFERENCES OF MAMMALIAN CELLS. Burns RL, Rosenberger PG, Klebe RJ *J Cell Physiol* 88: 307-16, July 76 (Eng) *DL/77FEB576

CELL MEMBRANE

INTERACTION OF CELL-MEMBRANE PROLACTIN RECEPTOR WITH ITS ANTIBODY. Shiu RP, Friesen HG *Biochem J* 157: 619-26, 1 Sep 76 (Eng) DL/77FEB501

CELL MULTIPLICATION

STIMULATION OF DNA SYNTHESIS, CELL MULTIPLICATION, AND ORNITHINE DECARBOXYLASE IN 3T3 CELLS BY MULTIPLICATION STIMULATING ACTIVITY (MSA). Nissley SP, Passamani J, Short P *J Cell Physiol* 89: 393-402, NOV 76 (Eng) DL/77FEB163

CELL, MYOCARDIAL

THE EFFECTS OF HORMONES AND PROSTAGLANDINS ON THE CALCIUM POOLS IN CULTURED MYOCARDIAL CELLS. Moura AM, Simpkins H *Mol Cell Endocrinol* 5: 349-57, OCT 76 (Eng) DL/77FEB98

MYOCARDIAL CELL DAMAGE DUE TO ETHANOL. Gvozdzak A, Borovic F, Bada V, Kruty F, Niederland TR, Gvozdzak J *Recent Adv Stud Cardiac Struct Metab* 7: 451-7, 1975 (Eng) *DL/77FEB675

CELL, NEUROBLASTOMA

REGULATION OF GLYCOGEN METABOLISM IN ASTROCYTOMA AND NEUROBLASTOMA CELLS IN CULTURE. Passonneau JV, Crites SK *J Biol Chem* 241: 2015-22, 10 Apr 76 (Eng) *DL/77FEB568

CELL, PITUITARY

MULTIPOTENT LIPOTROPIC HORMONES. IN SEARCH OF A PITUITARY CELL PRODUCING MULTIPOTENT LPH. Furth J, Chretien M, Lis M, Belanger A, Moy P, Grauman J *Arch Pathol* 99: 572-81, Nov 75 (Eng) *DL/77FEB710

CELL, SOMATOSTATIN

SEPARATE AUTOANTIBODIES TO HUMAN PANCREATIC GLUCAGON AND SOMATOSTATIN CELLS. Bottazzo GF, Lendrum R *Lancet* 2: 873-6, 23 Oct 76 (Eng) DL/77FEB244

CELL, SOMATOTROPHIC

QUANTITATIVE EVALUATION OF SOMATOTROPHIC CELLS (SC) IN THE ADENOHYPOPHYSIS OF NORMAL AND DIABETIC MALE CHINESE HAMSTERS. Deslex P, Rossi GL *Diabetologia* 12: 489-93, Oct 76 (Eng) DL/77FEB117

CELL SURFACE RECEPTOR

CELL SURFACE RECEPTORS FOR INSULIN AND HUMAN GROWTH HORMONE. EFFECT OF MICROTUBULE AND MICROFILAMENT MODIFIERS. Van Obberghen E, De Meyts P, Roth J *J Biol Chem* 251: 6844-51, 10 Nov 76 (Eng) DL/77FEB161

CELL SURFACE RECEPTORS. A BIOLOGICAL PERSPECTIVE. PP. 1-32. Greaves MF *In* *Quatrecasas P, Greaves MF, ed. Receptors and recognition. Series A. London, Chapman & Hall, 1976. W1 RE107m v.1 1976. (Eng) [83]* *DL/77FEB587

CELL, TARGET

HORMONAL REGULATION OF THE AFFINITY AND CONCENTRATION OF HORMONE RECEPTORS IN TARGET CELLS. DeMeyts P, Kahn CR, Roth J, Bar RS *Metabolism* 25: 1365-70, Nov 76 (Eng) DL/77FEB275

CELLULAR

INDUCTION OF ORNITHINE DECARBOXYLASE IN CULTURED MOUSE L CELLS. I. EFFECTS OF CELLULAR GROWTH, HORMONES, AND ACTINOMYCIN D. Yamasaki Y, Ichihara A *J Biochem (Tokyo)* 80: 557-62, Sep 76 (Eng) DL/77FEB157

[RECONSTRUCTION OF A SINGLE CELLULAR POTASSIUM-SODIUM CHANNEL IN A LIPID BILAYER] Aleksandrov AA, Berestovskii GN, Volkova SP, Vostrikov Ia, Zherelova OM *Dokl Akad Nauk SSSR* 227: 723-6, 21 Mar 76 (Rus) *DL/77FEB545

MODIFICATION OF CELLULAR LIPID METABOLISM BY PSYCHOLOGICAL STRESS. Rose KD, Ursick J, Maca R *Recent Adv Stud Cardiac Struct Metab* 1: 729-41, 1972 (Eng) *DL/77FEB653

CENTRAL NERVOUS SYSTEM

THE ROLE OF NERVE-GROWTH FACTOR (NGF) IN THE CENTRAL NERVOUS SYSTEM. Freed WJ *Brain Res Bull* 1: 393-412, Jul-Aug 76 (Eng) [243] DL/77FEB33

CENTRAL NERVOUS SYSTEM-MEDIATED STIMULATION OF GLUCAGON SECRETION IN THE DOG FOLLOWING 2-DEOXYGLUCOSE. Frohman LA, Nagai K *Metabolism* 25: 1449-52, Nov 76 (Eng) DL/77FEB295

DRUG MODIFICATION OF HYPOTHERMIA INDUCED BY CNS GLUCOPENIA IN THE MOUSE. Mager M, Robinson S, Freinkel N *Biochem J* 157: 559-64, 1 Sep 76 (Eng) DL/77FEB499

CEREBELLAR

METABOLIC PROPERTIES OF A PURIFIED PREPARATION OF LARGE FRAGMENTS OF THE CEREBELLAR GLOMERULI: GLUCOSE METABOLISM AND AMINO ACID UPTAKE. Wilson JE, Wilkin GP, Balazs R *J Neurochem* 26: 957-65, May 76 (Eng) *DL/77FEB600

CEREBELLAR GLOMERULUS

METABOLIC PROPERTIES OF A PURIFIED PREPARATION OF LARGE FRAGMENTS OF THE CEREBELLAR GLOMERULI: GLUCOSE METABOLISM AND AMINO ACID UPTAKE. Wilson JE, Wilkin GP, Balazs R *J Neurochem* 26: 957-65, May 76 (Eng) *DL/77FEB600

CEREBELLUM

BIOCHEMICAL DISSECTION OF THE CEREBELLUM—FUNCTIONAL PROPERTIES OF THE GLOMERULUS PARTICLES. PP. 427-36. Wilson JE, Wilkin GP, Balazs R *In* *Berl S, et al., ed. Metabolic compartmentation and neurotransmission. New York, Plenum Press, 1975. W3 N1355 1974m. (Eng) *DL/77FEB516*

CEREBRAL CORTEX

THE EFFECT OF HYPERTHERMIA UPON OXYGEN CONSUMPTION AND UPON ORGANIC PHOSPHATES, GLYCOLYTIC METABOLITES, CITRIC AND CYCLE INTERMEDIATES AND ASSOCIATED AMINO ACIDS IN RAT CEREBRAL CORTEX. Carlsson C, Hagerdal M, Siesjo BK *J Neurochem* 26: 1001-6, May 76 (Eng) *DL/77FEB599

THE INCORPORATION OF RADIOACTIVE FATTY ACIDS AND OF RADIOACTIVE DERIVATIVES OF GLUCOSE INTO THE PHOSPHOLIPIDS OF SUBSYNAPTOSOMAL FRACTIONS OF CEREBRAL CORTEX. Baker R, Dowdall MJ, Whittaker VP *Biochem J* 154: 65-75, 15 Jan 76 (Eng) *DL/77FEB715

CEREBRAL DISEASE

[PREVENTIVE MEASURES AGAINST INFANT MORTALITY AND CEREBRAL DISEASES ASSOCIATED WITH PREMATURITY] Duc G *Gynaekol Rundsch* 15 suppl 1: 34-8, 1975 (Fre) *DL/77FEB562

CEREBRAL LESION

CEREBRAL LESIONS OF MATURE NEWBORN DUE TO PERINATAL HYPOXIA. II. MOTHERS DISEASES. Nyka WM *Z Geburtshilfe Perinatol* 180: 295-9, Aug 76 (Eng) DL/77FEB440

CEREBRAL REVASCULARIZATION

COMPLICATIONS OF CEREBRAL REVASCULARIZATION. Reichman OH *Clin Neurosurg* 23: 318-35, 1976 (Eng) DL/77FEB47

CEREBRO-VISCERAL REGULATION

[CORRELATIONS BETWEEN HIPPOCAMPUS FUNCTION AND STRESSED LEARNING AND THEIR EFFECT ON CEREBRO-VISCERAL REGULATION PROCESSES] Hecht K, Hai NV, Hecht T, Moritz V, Woosmann H *Acta Biol Med Ger* 35: 35-45, 1976 (Ger) DL/77FEB449

CEREBROVASCULAR DISEASE

COMPARISON OF HOSPITAL ADMISSIONS FOR CEREBROVASCULAR DISEASE IN MICHIGAN AND NORTH CAROLINA. Wylie CM, Carpenter JO *J Community Health* 2: 21-30, Fall 76 (Eng) DL/77FEB170

CHAIN ELONGATION

SOME FACTORS AFFECTING CHAIN ELONGATION OF PALMITYL-COA IN RAT LIVER MICROSOMES. Nakagawa M, Kawashima Y, Uchiyama M *Chem Pharm Bull (Tokyo)* 24: 46-51, Jan 76 (Eng) *DL/77FEB533

CHILD

HYPOGLYCAEMIA IN CHILDREN UNDERGOING OPERATIONS [LETTER]. Simpson JC *Br Med J* 2: 758, 25 Sep 76 (Eng) DL/77FEB25

CLINICAL AND METABOLIC STUDIES IN CHILDREN OF DIABETIC-MOTHERS. Amendt P, Michaelis D, Hildmann W *Endokrinologie* 67: 351-61, 1976 (Eng) DL/77FEB70

RENAL WASTAGE OF INSULIN IN CHILDREN WITH DIABETES MELLITUS. Malone JL, Root AW *Diabetes* 25: 989-93, Oct 76 (Eng) DL/77FEB109

[PROGNOSIS OF CHILDREN OF MOTHERS WITH DIABETES MELLITUS] Salvioli GP, Dallacasa P, Bottiglioni F, Guerreschi E *Minerva Pediatr* 28: 212-6, 11 Feb 76 (Ita) DL/77FEB320

[INSULIN HYPOGLYCEMIA DURING TREATMENT OF DIABETES MELLITUS IN CHILDREN] Jokanovic R, Nikezic M *Srp Arh Celok Lek* 104: 49-56, Jan 76 (Ser) DL/77FEB404

[GROWTH HORMONE DETERMINATIONS IN CHILDREN WITH RHEUMATOID ARTHRITIS AND STILL'S SYNDROME (PROCEEDINGS)] Butenandt O, Eder R, Clados-Kelch A *Z Rheumatol* 35 suppl 4: suppl 47-53, 1976 (Ger) DL/77FEB445

THE AETIOLOGY OF OBESITY IN CHILDREN. A STUDY OF 101 TWIN PAIRS. Borjeson M *Acta Paediatr Scand* 65: 279-87, May 76 (Eng) *DL/77FEB686

CHILDHOOD

[PREVENTION OF ARTERIOSCLEROSIS DURING CHILDHOOD: PRELIMINARY RESEARCH] Nigro N, Benso L, Martini A, Balthieri M, Brunet MR, Iudicello P *Minerva Pediatr* 27: 288-312, 18 Feb 75 (Ita) *DL/77FEB611

CHINESE HAMSTER

QUANTITATIVE EVALUATION OF SOMATOTROPHIC CELLS (SC) IN THE ADENOHYPOPHYSIS OF NORMAL AND DIABETIC MALE CHINESE HAMSTERS. Deslex P, Rossi GL *Diabetologia* 12: 489-93, Oct 76 (Eng) DL/77FEB117

A MICROSURGICAL TECHNIQUE FOR ORTHOTOPIC OVARIAN TRANSPLANTATION IN THE CHINESE HAMSTER. Schmidt FL, Miller RL, Peterson T, Soret MG *Surgery* 80: 595-600, Nov 76 (Eng) DL/77FEB409

Diabetes Literature—Keyword Index

CHLORPOMAZINE

CHLORPOMAZINE

[CURRENT VIEWS ON THE ACTION OF CHLORPOMAZINE] Kanabus P *Psychiatr Pol* 10: 189-95, Mar-Apr 76 (Pol) [31] *DL/77FEB628

CHOLESTEROL

EFFECT OF PHENFORMIN AND ETHYLOESTRENOL ON BLOOD FIBRINOLYTIC ACTIVITY ON RABBITS MAINTAINED ON HIGH CHOLESTEROL DIET. Sharma KK, Chowdhury NK, Sharma AL *Indian J Med Res* 64: 915-22, Jun 76 (Eng) DL/77FEB149

INFLUENCE OF FAT INGESTION ON LECITHIN:CHOLESTEROL ACYL TRANSFER RATE IN PLASMA OF NORMAL PERSONS. Wallentin L, Vikrot O *Scand J Clin Lab Invest* 36: 473-9, Sep 76 (Eng) DL/77FEB392

THE ULTRASTRUCTURE OF THE REACTION OF ARTERIAL WALLS TO CHOLESTEROL CRYSTALS IN ATHEROEMBOLISM. Warren BA, Vales O *Br J Exp Pathol* 57: 67-77, Feb 76 (Eng) *DL/77FEB518

[THE BEHAVIOR OF LIPOPROTEINS, CHOLESTEROL, TRIGLYCERIDES, FREE FATTY ACIDS AND FREE GLYCEROL IN SERUM OF RATS WITH EXPERIMENTAL HYPERHYPOXINEMIA AND HYPOTHYREOSIS] Hubner G, Renner K, Rauer G *Endokrinologie* 67: 60-6, Mar 67 (Ger) *DL/77FEB548

CHOLESTEROL UPTAKE

MECHANISM OF INHIBITION OF CHOLESTEROL UPTAKE BY THE ARTERIAL WALL. Bing RJ, Sarma JSM, Fischer R, Ikeda S *Adv Exp Med Biol* 67: 419-435, 1976 (Eng) *DL/77FEB697

CHOLINERGIC

EXTRACELLULAR CALCIUM AND ADRENERGIC AND CHOLINERGIC EFFECTS ON ISLET BETA-CELL FUNCTION. Burr IM, Slonim AE, Burke V, Fletcher T *Am J Physiol* 231: 1246-9, Oct 76 (Eng) DL/77FEB476

DISCUSSION PAPER ON CHOLINERGIC REGULATION OF GLYCOGENOLYSIS AND PROTEIN SECRETION IN RAT SALIVARY GLANDS. PP. 295-6. Rossignol B, Herman G, Keryer G, Chambaut-Guerin AM, Ovracht L, Bussos S, Brown EM, Fedak SA, Woodard CJ, Aurbach GD *Ino Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract*. Baltimore, Univ Park Press, 1976. WI 102 S859 1975. (Eng) *DL/77FEB585

CHORIONIC SOMATOTROPIN

PLASMA CONCENTRATIONS OF UNCONJUGATED ESTRONE, ESTRADIOL-17BETA AND ESTRIOL, AND HCS THROUGHOUT PREGNANCY IN DIABETICS AND GESTATIONAL DIABETICS. De Hertogh R, Thomas K, Hoet JJ, Vanderheyden I *Diabetologia* 12: 455-61, Oct 76 (Eng) DL/77FEB114

CHROMATOGRAPHY

HIGH-PRESSURE LIQUID CHROMATOGRAPHIC ANALYSIS OF TOLBUTAMIDE IN SERUM. Weber DJ *J Pharm Sci* 65: 1502-5, OCT 76 (Eng) DL/77FEB209

CHROMATOGRAPHY, DEXTRAN-SEPHAROSE

STUDIES ON CYCLIC GMP-DEPENDENT PROTEIN KINASE PROPERTIES BY BLUE

DEXTRAN-SEPHAROSE CHROMATOGRAPHY. Kobayashi R, Fang VS *Biochem Biophys Res Commun* 69: 1080-7, 19 Apr 76 (Eng) *DL/77FEB716

CHROMATOGRAPHY, GAS

GAS CHROMATOGRAPHIC STUDY OF FREE POLYOLS AND ALDOSES IN CATARACTOUS HUMAN LENS TISSUE. Pfaffenberger CD, Szafrancik J, Horning EC *J Chromatogr* 126: 535-45, 3 Nov 76 (Eng) DL/77FEB164

CIMETIDINE

EFFECT OF THE HISTAMINE H2-RECEPTOR ANTAGONIST, CIMETIDINE, ON GASTRIC SECRETION AND SERUM GASTRIN DURING INSULIN INFUSION IN MAN. Carter DC, Forrest JA, Logan RA, Ansell I, Lidgard G, Heading RC, Shearman DJ *Scand J Gastroenterol* 11: 565-70, 1976 (Eng) DL/77FEB393

CIRCADIAN RHYTHM

CIRCADIAN PATTERN OF PROLACTIN AND GROWTH HORMONE LEVELS IN FEMALE RATS OF TWO STRAINS. Esber HJ, Kuo E, Bogden AE *Lab Anim Sci* 26: 186-9, Apr 76 (Eng) *DL/77FEB604

CIRCULAR DEOXYRIBONUCLEIC ACID

SMALL CIRCULAR DNA IN DROSOPHILA MELANOGASTER. Stanfield S, Helinski DR *Cell* 9: 333-45, Oct 76 (Eng) DL/77FEB41

CIRCULATION

INFLUENCE OF ASSISTED CIRCULATION ON CARDIAC METABOLISM. Ziegelhoffer A, Siska K, Holec V, Fedelesova M, Frolo I *Recent Adv Stud Cardiac Struct Metab* 1: 484-91, 1972 (Eng) *DL/77FEB646

CIRCULATORY FAILURE

[POLYCARDIOGRAPHIC EVALUATION OF LEFT VENTRICULAR CONTRACTION FOLLOWING GLUCAGON ADMINISTRATION TO PATIENTS WITH CHRONIC CIRCULATORY FAILURE] Szczeklik J, Dubiel J, Pyzik Z *Pol Tyg Lek* 31: 1709-12, 4 Oct 76 (Pol) DL/77FEB347

CIRRHOSES, LIVER

CLINICAL INVESTIGATION ON ABNORMAL GLUCOSE TOLERANCE IN LIVER CIRRHOSES. Kato K, Kikuchi S, Ito M *Gastroenterol Jpn* 11: 31-7, 1976 (Eng) DL/77FEB129

[METABOLIC EFFECT OF ADMINISTRATION OF GLUCAGON AND A COMBINATION OF GLUCAGON AND FRUCTOSE TO PATIENTS WITH CIRRHOSES OF THE LIVER AND TO HEALTHY SUBJECTS (AUTHORS TRANSL.)] Brodanova M, Brodan V, Andel M, Kuhn E *Sb Lek* 78: 218-24, Aug 76 (Cze) DL/77FEB390

CITRATE SYNTHASE

FACTORS AFFECTING THE ACTIVITY OF CITRATE SYNTHASE OF ACETOBACTER XYLINUM AND ITS POSSIBLE REGULATORY ROLE. Swissa M, Benziman M *Biochem J* 153: 173-9, 1 Feb 76 (Eng) *DL/77FEB713

CITRIC ACID CYCLE

COORDINATION OF CITRIC ACID CYCLE ACTIVITY WITH ELECTRON TRANSPORT FLUX. Williamson JR, Ford C, Illingworth J, Safer B *Circ Res* 38: i39-51, May 76 (Eng) *DL/77FEB538

THE EFFECT OF HYPERTHERMIA UPON OXYGEN CONSUMPTION AND UPON ORGANIC PHOSPHATES, GLYCOLYTIC METABOLITES, CITRIC AND CYCLE INTERMEDIATES AND ASSOCIATED AMINO ACIDS IN RAT CEREBRAL CORTICES. Carlsson C, Hagerdal M, Siesjo BK *J Neurochem* 26: 1001-6, May 76 (Eng) *DL/77FEB599

CLINIC, PODIATRY

DIABETIC FOOT CARE EDUCATION IN A PODIATRY CLINIC: A PILOT STUDY. Scarlet JJ, Conner JC, Monastersky C *J Am Podiatry Assoc* 66: 798-800, Oct 76 (Eng) DL/77FEB173

CLINICAL

MYOCARDIAL INFARCTION IN YOUNGER WOMEN. ASSOCIATED CLINICAL FEATURES AND RELATIONSHIP TO USE OF ORAL CONTRACEPTIVE DRUGS. Arthes FG, Masi AT *Chest* 70: 574-83, Nov 76 (Eng) DL/77FEB60

CLINICAL AND METABOLIC STUDIES IN CHILDREN OF DIABETIC-MOTHERS. Amendt P, Michaelis D, Hildmann W *Endokrinologie* 67: 351-61, 1976 (Eng) DL/77FEB70

[CLINICAL UNSPECIFICITY AND METABOLIC SPECIFICITY OF THE POLARIZING SOLUTION (AUTHORS TRANSL.)] Sodi-Pallares D *Folia Clin Int (Barc)* 26: 7-13, Jan 76 (Spa) [83] DL/77FEB81

HUMAN C-PEPTIDE IMMUNOREACTIVITY (CPR) IN BLOOD AND URINE - EVALUATION OF A RADIOIMMUNOASSAY METHOD AND ITS CLINICAL APPLICATIONS. Kuzuya T, Saito T, Yoshida S, Matsuda A *Diabetologia* 12: 511-8, Oct 76 (Eng) DL/77FEB120

CLINICAL CORRELATIONS OF SERUM PROINSULIN-LIKE MATERIAL IN ISLET CELL TUMOURS. Alsever RN, Stjernholm MR, Sussman KE, Mako ME, Rubenstein AH *Diabetologia* 12: 527-30, Oct 76 (Eng) DL/77FEB123

CLINICAL INVESTIGATION ON ABNORMAL GLUCOSE TOLERANCE IN LIVER CIRRHOSES. Kato K, Kikuchi S, Ito M *Gastroenterol Jpn* 11: 31-7, 1976 (Eng) DL/77FEB129

NEUROENDOCRINE CONTROL OF GROWTH HORMONE SECRETION: EXPERIMENTAL AND CLINICAL STUDIES. PP. 236-51. Luzzi A, Panerai AE, Chiodini PG, Secchi C, Cocchi D, Botalla L, Silvestrini F, Muller EE *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides*. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB185

PLASMA SOMATOMEDIN. CLINICAL OBSERVATIONS. PP. 271-85. Van den Brande JL *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides*. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) [81] DL/77FEB186

[CLINICAL STUDIES ON INSULIN RESPONSE TO GLUCOSE TOLERANCE TEST IN PATIENTS WITH PULMONARY TUBERCULOSIS (AUTHORS TRANSL.)] Oc N *Kekkaku* 51: 313-28, 15 Aug 76 (Jpn) DL/77FEB222

HUMAN C-PEPTIDE. PART II: CLINICAL STUDIES. Beischer W, Heinze E, Keller L, Raptis S, Kerner W, Pfeiffer EF *Klin Wochenschr* 54: 717-25, 1 Aug 76 (Eng) DL/77FEB228

[CLINICAL EXPERIENCE WITH THE NEW HUNGARIAN GLIBENCLAMIDE PRODUCT (GILEMAL)] Bela P, Miklos G *Orv Hetil* 117: 2792-4, 14 Nov 76 (Hun) DL/77FEB335

[SELECTED PHSIOPATHOLOGICAL AND CLINICAL ASPECTS OF PURINE METABOLISM] Chodorowski Z *Pol Tyg Lek* 31: 1733-5, 4 Oct 76 (Pol) [30] DL/77FEB349

Diabetes Literature—Keyword Index

CORTICAL HORMONE

CONTRACTILITY

EFFECT OF SECRETIN ON PACEMAKER ACTIVITY AND CONTRACTILITY IN THE ISOLATED BLOOD-PERFUSED ATRIUM OF THE DOG. Chiba S *Clin Exp Pharmacol Physiol* 3: 167-72, Mar-Apr 76 (Eng) DL/77FEB45

EFFECT OF PALMITATE ON HYPOXIC MYOCARDIAL METABOLISM AND CONTRACTILITY. Apstein CS, Gmeiner R, Brachfeld N *Recent Adv Stud Cardiac Struct Metab* 1: 136-46, 1972 (Eng) *DL/77FEB635

CONTRACTION

THE ROLE OF LINOLEIC ACID IN HYPOXIA-INDUCED CHANGES OF THE ACTION POTENTIALS AND THE FORCE OF CONTRACTION OF ISOLATED PAPILLARY MUSCLES OF THE GUINEA PIG. Ravens KG, Ravens U *Recent Adv Stud Cardiac Struct Metab* 7: 289-95, 1975 (Eng) *DL/77FEB671

CORONARY

PREOPERATIVE RISK FACTORS AND AORTA-CORONARY BYPASS GRAFT PATENCY. Blumlein SL, Anderson AJ, Barboriak JJ, Rimm AA, Walker J, Flemma R *J Thorac Cardiovasc Surg* 72: 778-83, Nov 76 (Eng) DL/77FEB234

CORONARY ATHEROSCLEROSIS

THERAPY TO CONTROL CORONARY ATHEROSCLEROSIS AND ITS COMPLICATIONS. Gorlin R *Major Probl Intern Med* 11: 281-92, 1976 (Eng) DL/77FEB237

A MODEL FOR THERAPEUTIC INTERVENTIONS ON ESTABLISHED CORONARY ATHEROSCLEROSIS IN A NONHUMAN PRIMATE. Malinow MR, McLaughlin O, Papworth L, Naito HK, Lewis L, McNulty WP *Adv Exp Med Biol* 67: 3-31, 1976 (Eng) *DL/77FEB694

CORONARY FLOW

INFLUENCES OF DIETARY FATS ON THE CORONARY FLOW AND OXYGEN CONSUMPTION OF THE ISOLATED RAT HEART. de Deckere EA, ten Hoor F *Recent Adv Stud Cardiac Struct Metab* 7: 475-83, 1975 (Eng) *DL/77FEB676

CORONARY HEART DISEASE

NATURAL HISTORY OF CORONARY HEART DISEASE. Gorlin R *Major Probl Intern Med* 11: 195-215, 1976 (Eng) DL/77FEB236

SMOKING AND OTHER RISK FACTORS FOR CORONARY HEART-DISEASE IN BRITISH CIVIL SERVANTS. Reid DD, Hamilton PJ, McCartney P, Rose G, Jarrett RJ, Keen H *Lancet* 2: 979-84, 6 Nov 76 (Eng) DL/77FEB253

CORTEX, CEREBRAL

THE INCORPORATION OF RADIOACTIVE FATTY ACIDS AND OF RADIOACTIVE DERIVATIVES OF GLUCOSE INTO THE PHOSPHOLIPIDS OF SUBSYNAPTOSOMAL FRACTIONS OF CEREBRAL CORTEX. Baker R, Dowdall MJ, Whittaker VP *Biochem J* 154: 65-75, 15 Jan 76 (Eng) *DL/77FEB715

CORTICAL HORMONE

PARTICIPATION OF CATECHOLAMINES AND CORTICAL HORMONES IN THE MYOCARDIAL METABOLIC ADAPTATION TO MECHANICAL OVERLOAD OF THE HEART. Fizeal A, Fizeola A *Recent Adv Stud Cardiac Struct Metab* 1: 814-27, 1972 (Eng) *DL/77FEB655

[BIOCHEMICAL AND CLINICAL ASPECTS OF MYOINOSITOL] Trznadel K, Lutz W *Pol Tyg Lek* 31: 1857-9, 25 OCT 76 (Pol) [27] DL/77FEB351

FUNCTION OF THE HYPOTHALAMUS AND CLINICAL ASPECTS. Laszlo F *Ther Hung* 24: 43-9, 1976 (Eng) DL/77FEB411

ON THE MEASUREMENT OF SPONTANEOUS PLATELET AGGREGATION. THE PLATELET AGGREGATION TEST III. METHODS AND FIRST CLINICAL RESULTS. Breddin K, Grun H, Krzywanek HJ, Schremmer WP *Thromb Haemostas* 35: 669-91, 30 Jun 76 (Eng) DL/77FEB412

[CLINICAL PROBLEMS OF PREMATURE LABOR. 1. DIAGNOSIS OF THREATENING PREMATURE LABOR AND THE SCREENING PROCEDURE] Bayer H, Issel EP, Agricola H, Roigas E *Zentralbl Gynaekol* 98: 1025-34, 1976 (Ger) DL/77FEB447

CLINICAL USE OF ORAL HYPOGLYCEMIC AGENTS. Hagg SA *Am J Hosp Pharm* 33: 943-7, Sep 76 (Eng) [60] DL/77FEB467

CLOTTING, BLOOD

[BLOOD CLOTTING AND FIBRINOLYTIC ACTIVITY AND PLATELET CHANGES IN CHRONIC PERIPHERAL ARTERIAL INSUFFICIENCY] Kaniak J, Kotschy M, Kurzawska M, Wlodarczyk J, Prastowski W *Pol Tyg Lek* 31: 1757-60, 11 Oct 76 (Pol) DL/77FEB350

CNS

SEE CENTRAL NERVOUS SYSTEM

COBALT 60

[EFFECT OF GAMMA RAYS FROM 60CO ON THE IN VITRO INCORPORATION OF PALMITIC ACID IN LIPIDS OF RAT LIVER MICROSOMES] Magdalou J, Dousset N, Douste-Blazy L *Int J Radiat Biol* 29: 27-35, Jan 76 (Fre) *DL/77FEB565

COCKEREL

EFFECT OF HYPOPHYSECTOMY AND INSULIN ON LIPOGENESIS IN COCKERELS. Kompang IP, Gibson WR *Horm Metab Res* 8: 340-5, Sep 76 (Eng) DL/77FEB138

COENZYME A

3-OXO ACID COENZYME A-TRANSFERASE IN NORMAL AND DIABETIC RAT MUSCLE. Fenselau A, Wallis K *Biochem J* 158: 509-12, 15 Aug 76 (Eng) DL/77FEB507

SOME FACTORS AFFECTING CHAIN ELONGATION OF PALMITYL-COA IN RAT LIVER MICROSOMES. Nakagawa M, Kawashima Y, Uchiyama M *Chem Pharm Bull (Tokyo)* 24: 46-51, Jan 76 (Eng) *DL/77FEB533

COLD ACCLIMATION

PROGRESSIVE ENHANCEMENT IN THE SECRETORY FUNCTIONS OF THE DIGESTIVE SYSTEM OF THE RAT IN THE COURSE OF COLD ACCLIMATION. Harada E, Kanno T *J Physiol (Lond)* 260: 629-45, Sep 76 (Eng) DL/77FEB211

COLON

[THE SMALL LEFT COLON SYNDROME. 3 CASES] Neuenschwander S, Montagne JP, Boudou A, Bouron D, Mougenot JF, Gruner M, Faure C *Nouv Presse Med* 6: 2311-4, 23 Oct 76 (Fre) DL/77FEB346

COMA

[COMA CAUSED BY HYPEROSMOLARITY] Morin C, Bernier J *Union Med Can* 105: 1174-80, Aug 76 (Fre) DL/77FEB422

COMA, DIABETIC

[DIABETIC COMA] Miranda Caballero R *Bol Med Hosp Infant Mex* 33: 1203-8, Sep-Oct 76 (Spa) DL/77FEB2

CONCAVALIN A

CONCAVALIN A STIMULATION MODIFIES THE LIPID AND PROTEIN STRUCTURE OR RABBIT THYMOCYTE PLASMA MEMBRANES. A LASER RAMAN STUDY. Schmidt-Ullrich R, Verma SP, Wallach DF *Biochim Biophys Acta* 426: 477-88, 19 Mar 76 (Eng) *DL/77FEB519

CONFORMATIONAL CHANGE

CONFORMATIONAL CHANGES IN CYTOCHROME AA3 AND ATP SYNTHETASE OF THE MITOCHONDRIAL MEMBRANE AND THEIR ROLE IN MITOCHONDRIAL ENERGY TRANSDUCTION. Wikstrom MK, Saari HT *Mol Cell Biochem* 11: 17-33, 26 Mar 76 (Eng) [70] *DL/77FEB612

CONFORMATIONAL COUPLING

A MODEL FOR CONFORMATIONAL COUPLING OF MEMBRANE POTENTIAL AND PROTON TRANSLOCATION TO ATP SYNTHESIS AND TO ACTIVE TRANSPORT. Boyer PD *FEBS Lett* 58: 1-6, 15 Oct 75 (Eng) *DL/77FEB555

CONFORMATIONAL PROPERTY

BIOLOGIC ACTIVITY AND CONFORMATIONAL PROPERTIES OF GLUCAGON AND GLUCAGON ANALOGS. Epand RM, Cote TE, Hoa DH, Rosselin G, Schreier S *Metabolism* 25: 1317-8, Nov 76 (Eng) DL/77FEB264

CONTRACEPTIVE

SERUM LIPID CHANGES DURING CONTRACEPTIVE ADMINISTRATION IN OBESE WOMEN: RELATION TO SERUM INSULIN LEVELS. Gershberg H, Hulse M, Galler M *J Clin Endocrinol Metab* 43: 861-5, Oct 76 (Eng) DL/77FEB168

CONTRACEPTIVE, ORAL

MYOCARDIAL INFARCTION IN YOUNGER WOMEN. ASSOCIATED CLINICAL FEATURES AND RELATIONSHIP TO USE OF ORAL CONTRACEPTIVE DRUGS. Arthes FG, Masi AT *Chest* 70: 574-83, Nov 76 (Eng) DL/77FEB60

CONTRACTILE

THE HORMONAL RESTORATION OF THE INTRINSIC CONTRACTILE FUNCTION OF THE ATROPHIC HEARTS OF HYPOPHYSECTOMIZED RATS. Korecky B, Taichman GC, Minelli R, Beznak M *Recent Adv Stud Cardiac Struct Metab* 1: 71-80, 1972 (Eng) *DL/77FEB651

CONTRACTILE PROTEIN

INCORPORATION OF AMINO ACID INTO TOTAL AND CONTRACTILE PROTEIN OF TISSUE SLICES OF THE HYPERTROPHIC RAT HEART. Wollenberger A, Onnen K *Recent Adv Stud Cardiac Struct Metab* 1: 186-9, 1972 (Eng) *DL/77FEB638

CORTICOSTEROID, TOPICAL

CORTICOSTEROID, TOPICAL

INDUCTION OF GLYCOSURIA AND HYPERGLYCEMIA BY TOPICAL CORTICOSTEROID THERAPY. Gomez EC, Frost P *Arch Dermatol* 112: 1559-62, Nov 76 (Eng) DL/77FEB489

CORTICOSTERONE

FOETAL RAT PANCREAS IN ORGAN CULTURE. EFFECT OF CORTICOSTERONE CONCENTRATIONS ON THE ACINAR AND ISLET CELL COMPONENTS. McEvoy RC, Hegre OD, Lazarow A *Differentiation* 6: 17-26, 16 Mar 76 (Eng) DL/77FEB125

CORTISOL

[THE INFLUENCE OF CORTISOL TREATMENT ON THE DEVELOPMENT OF DIABETIC CATARACTS IN RATS (AUTHORS TRANSL.) Koch HR, Hillenbink M, Liappis N *Albrecht von Graefes Arch Klin Ophthalmol* 200: 211-22, 1976 (Ger) DL/77FEB082

CORTISOL, PLASMA

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL AND GROWTH HORMONE LEVELS IN YOUNG WEIGHT LIFTERS] Lukaszcwka J, Biczowa B, Bobilewicz D, Wilk M, Obuchowicz-Fidelus B *Endokrynol Pol* 27: 149-57, Mar-Apr 76 (Pol) *DL/77FEB549

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL, TESTOSTERONE AND GROWTH HORMONE LEVELS IN WEIGHT LIFTERS] Skierska E, Ustupka J, Biczowa B, Lukaszcwka J *Endokrynol Pol* 27: 159-65, Mar-Apr 76 (Pol) *DL/77FEB550

COUPLING

A MODEL FOR CONFORMATIONAL COUPLING OF MEMBRANE POTENTIAL AND PROTON TRANSLLOCATION TO ATP SYNTHESIS AND TO ACTIVE TRANSPORT. Boyer PD *FEBS Lett* 58: 1-6, 15 Oct 75 (Eng) *DL/77FEB555

C-PEPTIDE

HUMAN C-PEPTIDE IMMUNOREACTIVITY (CPR) IN BLOOD AND URINE - EVALUATION OF A RADIOIMMUNOASSAY METHOD AND ITS CLINICAL APPLICATIONS. Kuzuya T, Saito T, Yoshida S, Matsuda A *Diabetologia* 12: 511-8, Oct 76 (Eng) DL/77FEB120

DISAPPEARANCE RATE OF ENDOGENOUS HUMAN C-PEPTIDE FROM BLOOD. Kuzuya T, Matsuda A *Diabetologia* 12: 519-21, Oct 76 (Eng) DL/77FEB121

HUMAN C-PEPTIDE. PART II: CLINICAL STUDIES. Beischer W, Heinze E, Keller L, Raptis S, Kerner W, Pfeiffer EF *Klin Wochenschr* 54: 717-25, 1 Aug 76 (Eng) DL/77FEB228

[RADIOIMMUNOLOGIC DETERMINATION OF STH, INSULIN, AND C-PEPTIDE. INDICATION, FUNCTIONAL TESTS, INTERPRETATION OF THE FINDINGS] Schroder KE, Raptis S, Beischer W *Med Welt* 27: 1720-5, 10 Sep 76 (Ger) DL/77FEB257

CRYSTALLIN

DIFFERENTIAL SYNTHESIS OF CRYSTALLIN AND NONCRYSTALLIN POLYPEPTIDES DURING LENS FIBER CELL DIFFERENTIATION IN VITRO. Beebe DC, Piatigorsky *Exp Eye Res* 22: 237-49, Mar 76 (Eng) *DL/77FEB552

CULTURE

THE EFFECTS OF HORMONES AND PROSTAGLANDINS ON THE CALCIUM POOLS IN CULTURED MYOCARDIAL CELLS. Moura AM, Simpkins H *Mol Cell Endocrinol* 5: 349-57, OCT 76 (Eng) DL/77FEB98

INDUCTION OF ORNITHINE DECARBOXYLASE IN CULTURED MOUSE L CELLS. I. EFFECTS OF CELLULAR GROWTH, HORMONES, AND ACTINOMYCIN D. Yamasaki Y, Ichihara A *J Biochem (Tokyo)* 80: 557-62, Sep 76 (Eng) DL/77FEB157

HORMONAL STIMULATION OF DNA SYNTHESIS IN PRIMARY CULTURES OF ADULT RAT HEPATOCYTES. Richman RA, Claus TH, Pilks SJ, Friedman DL *Proc Natl Acad Sci USA* 73: 3589-93, Oct 76 (Eng) DL/77FEB360

REGULATION OF GLYCOGEN METABOLISM IN ASTROCYTOMA AND NEUROBLASTOMA CELLS IN CULTURE. Passonneau JV, Crites SK *J Biol Chem* 241: 2015-22, 10 Apr 76 (Eng) *DL/77FEB568

ERUCIC ACID METABOLISM BY CULTURED BEATING HEART CELLS OF THE POST-NATAL RAT. Pinson A, Padieu P *Recent Adv Stud Cardiac Struct Metab* 7: 29-40, 1975 (Eng) *DL/77FEB672

EFFECTS OF DENSITY-DEPENDENT INHIBITION OF GROWTH ON PHOSPHOLIPID METABOLISM IN MONOLAYER CULTURES OF ANIMAL CELLS. Gallaher WR, Blough HA *Arch Biochem Biophys* 173: 738-46, Apr 76 (Eng) *DL/77FEB704

CULTURE, ORGAN

GLUCOSE UPTAKE BY NORMAL HUMAN BREAST TISSUE IN ORGAN CULTURE. INFLUENCE OF INSULIN AND OTHER ADDITIVES. van Bogaert LJ *Cell Tissue Res* 171: 535-41, 1 Sep 76 (Eng) DL/77FEB40

FOETAL RAT PANCREAS IN ORGAN CULTURE. EFFECT OF CORTICOSTERONE CONCENTRATIONS ON THE ACINAR AND ISLET CELL COMPONENTS. McEvoy RC, Hegre OD, Lazarow A *Differentiation* 6: 17-26, 16 Mar 76 (Eng) DL/77FEB125

CULTURE, TISSUE

[ANALYSIS OF BREAST CELL DIFFERENTIATION IN TISSUE CULTURE UNDER THE INFLUENCE OF HORMONES] Kalantar IL, Khrustaleva GI, Nechipurenko LV, Medvedev IK *Tsitologiya* 18: 1014-9, Aug 76 (Rus) DL/77FEB416

HUMAN ADIPOSE TISSUE IN CULTURE. VI. EFFECT OF AGE ON CELL SIZE AND LIPOLYSIS. Nyberg G, Mellgren G, Smith U *Acta Paediatr Scand* 65: 313-8, May 76 (Eng) *DL/77FEB687

CYCLASE, ADENYLATE

ADRENALINE-INDUCED DESENSITIZATION OF LIVER ADENYLATE CYCLASE. Lam V, Bar HP *Biochem Pharmacol* 25: 2103-4, 15 Sep 76 (Eng) DL/77FEB513

HOLOCATALYTIC STATE OF ADENYLATE CYCLASE IN TURKEY ERYTHROCYTE MEMBRANES: FORMATION WITH GUANYLYLIMIDODIPHOSPHATE PLUS ISOPROTERENOL WITHOUT EFFECT ON AFFINITY OF BETA-RECEPTOR. Spiegel AM, Brown EM, Fedak SA, Woodard CJ, Aurbach GD *J Cyclic Nucleotide Res* 2: 47-56, 1976 (Eng) *DL/77FEB583

CYCLIC AMP

SEE ADENOSINE-3,5-CYCLIC-MONOPHOSPHATE

CYCLIC NUCLEOTIDE

CYCLIC NUCLEOTIDE-, PYRUVATE- AND HORMONE-INDUCED CHANGES IN PYRUVATE KINASE ACTIVITY IN ISOLATED RAT HEPATOCYTES. van Berkel TJ, Kruijt JK, Koster JF, Hulsmann WC *Biochem Biophys Res Commun* 72: 917-25, 4 Oct 76 (Eng) DL/77FEB511

GROWTH HORMONE, CYCLIC NUCLEOTIDES AND THE RAPID CONTROL OF TRANSLATION IN HEART MUSCLE. Mowbray J, Davies JA, Bates DJ, Jones CJ *Biochem J* 152: 583-92, Dec 75 (Eng) *DL/77FEB712

CYCLOSTOME

NEW TYPES OF ISLET CELLS IN A CYCLOSTOME, PETROMYZON MARINUS L. Brinn JE, Epple A *Cell Tissue Res* 171: 317-29, 26 Aug 76 (Eng) DL/77FEB39

CYSTIC FIBROSIS

MECONIUM ILEUS EQUIVALENT IN ADULTS WITH CYSTIC FIBROSIS OF PANCREAS: A REPORT OF SIX CASES. Hodson ME, Mearns MB, Batten JC *Br Med J* 2: 790-1, 2 Oct 76 (Eng) DL/77FEB27

CYTOCHALASIN B BINDING

CHARACTERIZATION OF (3H)CYTOCHALASIN B BINDING TO THE FAT CELL PLASMA MEMBRANE. Czech MP *J Biol Chem* 251: 2905-10, 25 May 76 (Eng) *DL/77FEB570

CYTOCHROME AA3

CONFORMATIONAL CHANGES IN CYTOCHROME AA3 AND ATP SYNTHETASE OF THE MITOCHONDRIAL MEMBRANE AND THEIR ROLE IN MITOCHONDRIAL ENERGY TRANSDUCTION. Wikstrom MK, Saari HT *Mol Cell Biochem* 11: 17-33, 26 Mar 76 (Eng) [70] *DL/77FEB612

CYTOCHROME P-450

EFFECT OF DIETARY SUBSTITUTION OF SUCROSE AND ITS CONSTITUENT MONOSACCHARIDES ON THE ACTIVITY OF AROMATIC HYDROXYLASE AND THE LEVEL OF CYTOCHROME P-450 IN HEPATIC MICROSOMES OF GROWING RATS. Basu TK, Dickerson JW, Parke DV *Nutr Metab* 18: 302-9, 1975 (Eng) *DL/77FEB614

DECARBOXYLASE, GLUTAMATE

HIGH CONCENTRATION OF GABA AND HIGH GLUTAMATE DECARBOXYLASE ACTIVITY IN RAT PANCREATIC ISLETS AND HUMAN INSULINOMA. Okada Y, Taniguchi II, Shimada C *Science* 194: 620-2, 5 Nov 76 (Eng) DL/77FEB398

DEGRADATION, INSULIN

STUDIES ON UREA SYNTHESIS, INSULIN DEGRADATION AND PHAGOCYTOSIS BY ISOLATED RAT KUPFFER CELLS. Wagler SR, Hofmann F, Decker K *Biochem Biophys Res Commun* 72: 448-55, 20 SEP 76 (Eng) DL/77FEB509

DEHYDROGENASE, PYRUVATE

KETONIC DIET IN THE MANAGEMENT OF PYRUVATE DEHYDROGENASE DEFICIENCY. Falk RE, Cederbaum SD, Blass JP, Gibson GE, Kark RA, Carrel RE *Pediatrics* 58: 713-21, Nov 76 (Eng) DL/77FEB338

DEHYDROGENASE, SUCCINATE

DECAY OF SUCCINATE DEHYDROGENASE ACTIVITY IN RAT SKELETAL MUSCLE FOLLOWING STREPTOZOTOCIN INJECTION. Armstrong RB, Ianuzzo CD *Horm Metab Res* 8: 392-4, Sep 76 (Eng) DL/77FEB146

DENSITY DEPENDENT INHIBITION

EFFECTS OF DENSITY-DEPENDENT INHIBITION OF GROWTH ON PHOSPHOLIPID METABOLISM IN MONOLAYER CULTURES OF ANIMAL CELLS. Gallaher WR, Blough HA *Arch Biochem Biophys* 173: 738-46, Apr 76 (Eng) *DL/77FEB704

2-DEOXYGLUCOSE

CENTRAL NERVOUS SYSTEM-MEDIATED STIMULATION OF GLUCAGON SECRETION IN THE DOG FOLLOWING 2-DEOXYGLUCOSE. Frohman LA, Nagai K *Metabolism* 25: 1449-52, Nov 76 (Eng) DL/77FEB295

DEOXYRIBONUCLEIC ACID

SMALL CIRCULAR DNA IN DROSOPHILA MELANOGASTER. Stanfield S, Helinski DR *Cell* 9: 333-45, Oct 76 (Eng) DL/77FEB41

DEOXYRIBONUCLEIC ACID SYNTHESIS

STIMULATION OF DNA SYNTHESIS, CELL MULTIPLICATION, AND ORNITHINE DECARBOXYLASE IN 3T3 CELLS BY MULTIPLICATION STIMULATING ACTIVITY (MSA). Nissley SP, Passamani J, Short P *J Cell Physiol* 89: 393-402, NOV 76 (Eng) DL/77FEB163

INSULIN, GLUCAGON, LIVER REGENERATION, AND DNA SYNTHESIS. Bucher NL, Weir GC *Metabolism* 25: 1423-5, Nov 76 (Eng) DL/77FEB288

INSULIN AND GLUCAGON AS MODIFIERS OF DNA SYNTHESIS IN THE REGENERATING RAT LIVER. Price JB Jr *Metabolism* 25: 1427-8, Nov 76 (Eng) DL/77FEB289

HORMONAL STIMULATION OF DNA SYNTHESIS IN PRIMARY CULTURES OF ADULT RAT HEPATOCYTES. Richman RA, Claus TH, Pilks SJ, Friedman DL *Proc Natl Acad Sci USA* 73: 3589-93, Oct 76 (Eng) DL/77FEB360

DEPRESSION

NEUROENDOCRINE STUDIES OF DEPRESSIVE ILLNESS. Sachar EJ, Roffwarg HP, Gruen PH, Altman N, Sassini J *Pharmakopsychiatr Neuropsychopharmacol* 9: 11-7, Jan 76 (Eng) DL/77FEB363

DESMOPRESSIN

DESMOPRESSIN (DDAVP) IN DIABETES INSIPIDUS. Anonymous *Drug Ther Bull* 14: 81-2, 8 Oct 76 (Eng) DL/77FEB64

DETERMINATION

[COMPARISON OF VARIOUS SEMI-QUANTITATIVE TESTS FOR DETERMINATION OF URINARY GLUCOSE IN DIABETICS (AUTHORS TRANSL)] Dorchy H, Loeb H *Diabetes Metab* 1: 87-9, Jun 75 (Fre) DL/77FEB96

[COMPARATIVE QUANTITATIVE RAPID DETERMINATION OF BLOOD SUGAR BY MEANS OF VARIOUS REFLECTOMETER-SYSTEMS] Scherthaner G, Erd W, Sinzinger H, Penner E *Wien Med Wochenschr* 126: 571-4, 1 Oct 76 (Ger) DL/77FEB435

[GROWTH HORMONE DETERMINATIONS IN CHILDREN WITH RHEUMATOID ARTHRITIS AND STILL'S SYNDROME (PROCEEDINGS)] Butenandt O, Eder R, Clados-Kelch A *Z Rheumatol* 35 suppl 4: suppl 47-53, 1976 (Ger) DL/77FEB445

A RAPID METHOD FOR THE DETERMINATION OF GLYCOGEN CONTENT AND RADIOACTIVITY IN SMALL QUANTITIES OF TISSUE OR ISOLATED HEPATOCYTES. Chan TM, Exton JH *Anal Biochem* 71: 96-105, Mar 76 (Eng) *DL/77FEB701

DIABETES

THE EVOLVING PICTURE OF DIABETES. Eilenberg M *Compr Ther* 2: 9-15, Nov 76 (Eng) DL/77FEB55

DIABETES INSIPIDUS

DESMOPRESSIN (DDAVP) IN DIABETES INSIPIDUS. Anonymous *Drug Ther Bull* 14: 81-2, 8 Oct 76 (Eng) DL/77FEB64

[RESULTS OF TREATMENT OF DIABETES IN SIPIDUS WITH PFIZERS DIABINESE (AUTHORS TRANSL)] Chęcinska Z, Galazka A, Gruszka S, Stepien M, Milewicz A, Szklarz E *Przegl Lek* 33: 697-9, 1976 (Pol) DL/77FEB370

DIABETES MELLITUS, ASYMPTOMATIC

TREATMENT OF ASYMPTOMATIC DIABETES MELLITUS. Reaven GM *Compr Ther* 2: 22-8, Nov 76 (Eng) DL/77FEB49

DIABETES, SPONTANEOUS

[PATHOGENESIS OF SPONTANEOUS DIABETES MELLITUS IN THE CAT. II. ACIDOPHILIC ADENOMA OF THE PITUITARY GLAND AND DIABETES MELLITUS IN 2 CASES] Gemhardt C, Loppnow H *Berl Munch Tierarztl Wochenschr* 89: 336-40, 1 Sep 76 (Ger) DL/77FEB497

DIABETES THERAPY

PANCREATIC ISLET CELL TRANSPLANTATION AND DIABETES THERAPY. Monaco AP, Codish SD *Compr Ther* 2: 29-37, Nov 76 (Eng) DL/77FEB50

DIABETIC FOOT

DIABETIC FOOT CARE EDUCATION IN A PODIATRY CLINIC: A PILOT STUDY. Scarlet JJ, Conner JC, Monastersky C *J Am Podiatry Assoc* 66: 798-800, Oct 76 (Eng) DL/77FEB173

THE DIABETIC FOOT. Levin ME *J Am Podiatry Assoc* 66: 825-39, Nov 76 (Eng) DL/77FEB174

DIABETIC IDENTITY

THE DEVELOPING DIABETIC IDENTITY: A STUDY OF FAMILY INFLUENCE. Benoliel JQ *Commun Nurs Res* 3: 14-32, Sep 70 (Eng) DL/77FEB56

CRITIQUE OF THE DEVELOPING DIABETIC IDENTITY: A STUDY OF FAMILY INFLUENCE. Gunter LM *Commun Nurs Res* 3: 33-40, Sep 70 (Eng) DL/77FEB57

DIABETIC KETOACIDOSIS

NEW INSULIN REGIMENS FOR SEVERE DIABETIC KETOSIS. Anonymous *Drug Ther Bull* 14: 77-9, 24 Sep 76 (Eng) DL/77FEB63

[TREATMENT OF DIABETIC KETO-ACIDOSIS THROUGH CONTINUOUS INSULIN INFUSION] Mirouze J, Mion C, Monnier L, Beraud JJ, Selam JL *Nouv Presse Med* 5: 2444-6, 6 Nov 76 (Fre) DL/77FEB342

DIABETIC PATIENT

VOVULUS OF THE SMALL BOWEL IN A DIABETIC PATIENT [LETTER]. Fitzgerald GA, Colgan B, Drury MI, OConnell FX *Br Med J* 2: 945, 16 Oct 76 (Eng) DL/77FEB29

THE INFLUENCE OF INSULIN ON THE PROPORTION OF NEUTRAL SUGARS IN SEROMUCOID OF DIABETIC PATIENTS. Guzdek A, Ciba T, Sarnecka-Keller M *Clin Chim Acta* 72: 401-4, 1 Nov 76 (Eng) DL/77FEB44

ATROPHIC LESIONS OF THE TONGUE: A PREVALENCE STUDY AMONG 175 DIABETIC PATIENTS. Farman AG *J Oral Pathol* 5: 255-64, Sep 76 (Eng) DL/77FEB206

[DRUG-INDUCED HYPOGLYCEMIA IN DIABETIC PATIENTS] Gay G, Debry G *Nouv Presse Med* 5: 2156-8, 9 Oct 76 (Fre) DL/77FEB344

DIABETIC RAT

HYPERINSULINEMIA AND HYPERGLUCAGONEMIA FOLLOWING PANCREATIC ISLET TRANSPLANTATION IN DIABETIC RATS. Weber CJ, Hardy MA, Lerner RL, Felig P, Reemtsma K *Diabetes* 25: 944-8, Oct 76 (Eng) DL/77FEB101

SUPPRESSION OF FOOD INTAKE IN DIABETIC RATS BY VOLUNTARY CONSUMPTION AND INTRAHYPOTHALAMIC INJECTION OF GLUCOSE. Panksepp J, Meeker R *Physiol Behav* 16: 763-70, Jun 76 (Eng) DL/77FEB366

3-OXO ACID COENZYME A-TRANSFERASE IN NORMAL AND DIABETIC RAT MUSCLE. Fenselau A, Wallis K *Biochem J* 158: 509-12, 15 Aug 76 (Eng) DL/77FEB507

DIABINESE

[RESULTS OF TREATMENT OF DIABETES IN SIPIDUS WITH PFIZERS DIABINESE (AUTHORS TRANSL)] Chęcinska Z, Galazka A, Gruszka S, Stepien M, Milewicz A, Szklarz E *Przegl Lek* 33: 697-9, 1976 (Pol) DL/77FEB370

DIACYGLYCEROL ACYLTRANSFERASE

A HIGHLY SENSITIVE ASSAY FOR MICROSOMAL DIACYGLYCEROL ACYLTRANSFERASE ACTIVITY FROM ISOLATED FAT CELLS. Bell RM, Miller Y *Anal Biochem* 71: 436-43, Apr 76 (Eng) *DL/77FEB702

DIAGNOSIS

CRITERIA FOR DIAGNOSIS OF ALDOSTERONE BIOSYNTHETIC DEFECTS [LETTER]. Rossler A, Ulick S *N Engl J Med* 295: 1383, 9 Dec 76 (Eng) DL/77FEB325

[CLINICAL PROBLEMS OF PREMATURE LABOR. I. DIAGNOSIS OF THREATENING PREMATURE LABOR AND THE SCREENING PROCEDURE] Bayer H, Issel EP, Agricola H, Roigas E *Zentralbl Gynaekol* 98: 1025-34, 1976 (Ger) DL/77FEB447

DIAGNOSTIC METHOD

[DIAGNOSTIC METHODS IN THE ASSESSMENT OF GASTROINTESTINAL FUNCTION (AUTHORS TRANSL)] Pointer H *Wien Klin Wochenschr* 88: 609-18, 15 Oct 76 (Ger) [48] DL/77FEB433

DIARRHEA

THE 14C-GLYCOCHOLATE TEST IN DIABETIC DIARRHOEA. Scarpello JH, Hague RV, Cullen DR, Sladen GE *Br Med J* 2: 673-5, 18 Sep 76 (Eng) DL/77FEB23

DIAZOXIDE

DIAZOXIDE

[LEUCINE-SENSITIVE HYPOGLYCAEMIA AND ITS TREATMENT WITH DIAZOXIDE (AUTHORS TRANSL.) Reich H, Schunke W *Monatsschr Kinderheilkd* 129: 673-6, Sep 76 (Ger) DL/77FEB321

[MODIFICATION OF INSULIN-SECRETION, INDUCED BY GLUCOSE, OF THE ISOLATION-PERFUSED RAT PANCREAS USING TOLBUTAMIDE, GLUCOSAMINE, DIAZOXIDE, GLUCAGON AND ENDOGENOUS INSULIN] Bierwolf B, Blech W *Acta Biol Med Ger* 35: 583-95, 1976 (Ger) DL/77FEB450

DICLOFENAC

[INTERACTIONS BETWEEN DICLOFENAC AND GLIBENCLAMIDE] Chlud K *Z Rheumatol* 35: 377-82, Sep-Oct 76 (Ger) DL/77FEB444

DICOUMAROL

PHARMACOKINETIC ANALYSIS OF THE INTERACTION BETWEEN DICOUMAROL AND TOLBUTAMIDE IN MAN. Jahnchen E, Meinertz T, Gillich HJ, Groth U *Eur J Clin Pharmacol* 10: 349-56, 30 Sep 76 (Eng) DL/77FEB74

DIET

DIET AND THE DIABETIC [EDITORIAL]. Anonymous *Br Med J* 2: 780, 2 Oct 76 (Eng) DL/77FEB26

DIETS FOR DIABETICS [LETTER]. Trowell H *Br Med J* 2: 1011-2, 23 Oct 76 (Eng) DL/77FEB30

PLASMA INSULIN LEVELS IN WEANED PIGS FED PROTEIN OR ENERGY RESTRICTED DIETS. Atinmo T, Baldijao C, Pond WG, Barnes RH *J Nutr* 106: 1654-8, Nov 76 (Eng) DL/77FEB204

KETONIC DIET IN THE MANAGEMENT OF PYRUVATE DEHYDROGENASE DEFICIENCY. Falk RE, Cederbaum SD, Blass JP, Gibson GE, Kark RA, Carrel RE *Pediatrics* 58: 713-21, Nov 76 (Eng) DL/77FEB338

[TRANSPORT OF FREE FATTY ACIDS AND ENERGY METABOLISM DURING HYPOTHYROIDISM AND HYPERCALORIC FORMULA DIETS] Schonborn J, Dadrach E, Rabast U, Kasper H *Verh Dtsch Ges Inn Med* 81: 1402-5, 1975 (Ger) *DL/77FEB685

DIET, CHOLESTEROL

EFFECT OF PHENFORMIN AND ETHYLOESTRADIOL ON BLOOD FIBRINOLYTIC ACTIVITY ON RABBITS MAINTAINED ON HIGH CHOLESTEROL DIET. Sharma KK, Chowdhury NK, Sharma AL *Indian J Med Res* 64: 915-22, Jun 76 (Eng) DL/77FEB149

DIET, HIGH FAT

METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E *Diabete Metab* 1: 77-85, Jun 75 (Eng) DL/77FEB95

DIET INDUCED

DIET-INDUCED ALTERATIONS OF HIGH SECRETION IN MAN. Merimee TJ, Pulkkinen AJ, Burton CE *J Clin Endocrinol Metab* 62: 931-7, May 76 (Eng) *DL/77FEB578

DIET, REDUCING

[BEHAVIOR OF KETONE BODIES, BLOOD LIPIDS AND OF VARIOUS LABORATORY-CHEMISTRY PARAMETERS DURING ISO-

CALORIC HIGH-CARBOHYDRATE AND HIGH-FAT REDUCING DIETS] Schubert WR, Vogel B, Schmullig RM, Eggstein M *Verh Dtsch Ges Inn Med* 81: 1397-1400, 1975 (Ger) *DL/77FEB684

DIET THERAPY

DIET THERAPY IN THE U.S. IN THE PAST 200 YEARS. A BICENTENNIAL STUDY. Ohlson MA *J Am Diet Assoc* 69: 490-7, Nov 76 (Eng) DL/77FEB171

DIETARY ENERGY

INFLUENCE OF DIETARY ENERGY DURING GESTATION ON LAMBING PERFORMANCE, AND GLUCOSE METABOLISM IN FINNCROSS EWES. Prior RL, Christenson RK *J Anim Sci* 43: 1114-24, Nov 76 (Eng) DL/77FEB155

DIETARY EXCHANGE

STEROL BALANCE IN HYPERLIPIDEMIC PATIENTS AFTER DIETARY EXCHANGE OF CARBOHYDRATE FOR FAT. Ahrens EH Jr *J Lipid Res* 17: 97-106, Mar 76 (Eng) *DL/77FEB595

DIETARY FAT

INFLUENCES OF DIETARY FATS ON THE CORONARY FLOW AND OXYGEN CONSUMPTION OF THE ISOLATED RAT HEART. de Deckere EA, ten Hoor F *Recent Adv Stud Cardiac Struct Metab* 7: 475-83, 1975 (Eng) *DL/77FEB676

DIETARY FAT, UNSATURATED

[EFFECT OF UNSATURATED DIETARY FATS ON GROWTH AND LIPOGENESIS IN RATS] Demarne Y, Toure M, Flanzky J, Lecourtier MJ *Nutr Metab* 19: 28-40, 1975 (Fre) *DL/77FEB615

DIETARY FIBER

DIETARY FIBER--IN HISTORICAL PERSPECTIVE. Bing FC *J Am Diet Assoc* 69: 498-505, Nov 76 (Eng) [33] DL/77FEB172

DIETARY SUBSTITUTION

EFFECT OF DIETARY SUBSTITUTION OF SUCROSE AND ITS CONSTITUENT MONOSACCHARIDES ON THE ACTIVITY OF AROMATIC HYDROXYLASE AND THE LEVEL OF CYTOCHROME P-450 IN HEPATIC MICROSOMES OF GROWING RATS. Basu TK, Dickerson JW, Parke DV *Nutr Metab* 18: 302-9, 1975 (Eng) *DL/77FEB614

DIFFERENTIATION

FUNCTIONAL DIFFERENTIATION OF THE CHICK ENDOCRINE PANCREAS. II. THE ALPHA CELLS AND GLUCAGON. Benzo CA, Stearns SB *Am J Anat* 147: 273-9, Nov 76 (Eng) DL/77FEB465

THE EFFECT OF GLUCOSE AND MANGANESE ON ADENOSINE-3,5-MONOPHOSPHATE LEVELS DURING GROWTH AND DIFFERENTIATION OF ASPERGILLUS NIDULANS. Zonneveld BJ *Arch Microbiol* 108: 41-4, 3 May 76 (Eng) *DL/77FEB708

DIFFERENTIATION, CELL

DIFFERENTIAL SYNTHESIS OF CRYSTALLINE AND NONCRYSTALLINE POLYPEPTIDES DURING LENS FIBER CELL DIFFERENTIATION IN VITRO. Beebe DC, Piatigorsky Ep

Eye Res 22: 237-49, Mar 76 (Eng) *DL/77FEB552

DIGESTIVE

EFFECT OF CHRONIC GLUCAGON-ADMINISTRATION ON THE DIGESTIVE AND ABSORPTIVE FUNCTION OF RAT SMALL INTESTINE IN VIVO. Caspary WF, Lucke H *Res Exp Med (Berl)* 167: 1-13, 27 Feb 76 (Eng) DL/77FEB373

DIGESTIVE SYSTEM

PROGRESSIVE ENHANCEMENT IN THE SECRETORY FUNCTIONS OF THE DIGESTIVE SYSTEM OF THE RAT IN THE COURSE OF COLD ACCLIMATION. Harada E, Kanno T *J Physiol (Lond)* 260: 629-45, Sep 76 (Eng) DL/77FEB211

DIHYDROALPRENOLOL BINDING

ADIPOCYTE BETA-ADRENERGIC RECEPTORS. IDENTIFICATION AND SUBCELLULAR LOCALIZATION BY (-)-[3H]DIHYDROALPRENOLOL BINDING. Williams LT, Jarett L, Lefkowitz RJ *J Biol Chem* 251: 3096-104, 25 May 76 (Eng) *DL/77FEB572

DIHYDROXYACETONE

POSSIBLE ROLE OF PYRUVATE KINASE IN THE HORMONAL CONTROL OF DIHYDROXYACETONE GLUCONEOGENESIS IN ISOLATED HEPATOCYTES. Pilakis SJ, Claus TH, Riou JP, Park CR *Metabolism* 25: 1355-60, Nov 76 (Eng) DL/77FEB273

L-3,4-DIHYDROXYPHENYLALANINE

SEROTONINERGIC CONTROL OF HUMAN GROWTH HORMONE SECRETION: THE ACTIONS OF L-DOPA AND 2-BROMO-ALPHA-ERGOCRYPTINE. PP. 222-35. Smythe GA, Compton PJ, Lazarus L, InO Pecile A, Muller EE, ed. *Growth hormone and related peptides. Amsterdam, Excerpta Medica*, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB189

WEIGHT LOSS IN PATIENTS TREATED LONG-TERM WITH LEVODOPA. METABOLIC ASPECTS. Vardi J, Oberman Z, Rabey I, Streifler M, Ayalon D, Herzberg M *J Neurol Sci* 30: 33-40, Nov 76 (Eng) DL/77FEB201

[EFFECT OF ADRENALINE, NORADRENALINE, DOPAMINE, DOPA AND PHENYLALANINE ON LIPID PEROXIDATION IN LIVER MITOCHONDRIA MEMBRANES] Sergeev PV, Seifulla RD, Dunaev VG, Rudnev IuN *Biull Eksp Biol Med* 80: 25-8, Dec 75 (Rus) *DL/77FEB526

2,4-DINITROPHENOL

EFFECTS OF NA& DEPLETION, THEOPHYLLINE AND 2,4-DINITROPHENOL ON NEUTRAL AMINO ACID INFLUX AND CYCLIC ADENOSINE 3,5-MONOPHOSPHATE LEVELS IN CHICKEN SMALL INTESTINE. Burill PH, Sattelmeyer PA, Lerner J *Comp Biochem Physiol [C]* 53: 95-9, 1976 (Eng) *DL/77FEB543

DIPLOID

STUDIES OF HUMAN DIPLOID FIBROBLAST GROWTH. I. RESPONSES OF NORMAL AND HYPOTHYROID CELLS TO FIBROBLAST GROWTH FACTOR, INSULIN, AND SERUM. Jones KL, Addison J *J Clin Endocrinol Metab* 43: 721-9, Oct 76 (Eng) DL/77FEB166

Diabetes Literature—Keyword Index

DISACCHARIDE

AUGMENTATION OF ETHANOL ABSORPTION BY MONO- AND DISACCHARIDES. Broitman SA, Gottlieb LS, Vitale JJ *Gastroenterology* 70: 1101-7, Jun 76 (Eng) *DL/77FEB557

DISSECTION, BIOCHEMICAL

BIOCHEMICAL DISSECTION OF THE CEREBELLUM—FUNCTIONAL PROPERTIES OF THE GLOMERULUS PARTICLES. PP. 427-36. Wilson JE, Wilkin GP, Balazs R *In: Berl S, et al., ed. Metabolic compartmentation and neurotransmission*. New York, Plenum Press, 1975. W3 N1355 1974m. (Eng) *DL/77FEB516

DIURETIC

DETERIORATION IN GLUCOSE TOLERANCE FOLLOWING PROLONGED DIURETIC TREATMENT FOR HYPERTENSION (PROCEEDINGS). Lewis PJ, Dollery CT, Kohner EM, Petrie A *Br J Clin Pharmacol* 2: 375p, Aug 75 (Eng) DL/77FEB5

DIVALENT CATION

REGULATION OF HEPATIC ADENYLATE CYCLASE BY GLUCAGON, GTP, DIVALENT CATIONS, AND ADENOSINE. Rodbell M, Londos C *Metabolism* 25: 1347-9, Nov 76 (Eng) DL/77FEB271

THE EFFECT OF DIVALENT CATIONS ON BOVINE SPERMATOZOAL ADENYLATE CYCLASE ACTIVITY. Braun T *J Cyclic Nucleotide Res* 1: 271-81, 1975 (Eng) *DL/77FEB581

DNA

SEE DEOXYRIBONUCLEIC ACID

DOMESTIC FOWL

PHYSIOLOGICAL RESPONSES TO STRESS WITH REFERENCE TO THE DOMESTIC FOWL. Freeman BM *Lab Anim* 10: 385-8, Oct 76 (Eng) [15] DL/77FEB230

DOPAMINE

[EFFECT OF ADRENALINE, NORADRENALINE, DOPAMINE, DOPA AND PHENYLALANINE ON LIPID PEROXIDATION IN LIVER MITOCHONDRIA MEMBRANES] Sergeev PV, Seifullina RD, Dunaev VG, Rudnev Iu *N Biull Eksp Biol Med* 80: 25-8, Dec 75 (Rus) *DL/77FEB526

DOPAMINE AND INHIBITION OF PROLACTIN AND GROWTH-HORMONE SECRETION. Massara F, Camanni F, Belforte L, Molinatti GM *Lancet* 1: 913, 24 Apr 76 (Eng) *DL/77FEB606

DROSOPHILA MELANOGASTER

SMALL CIRCULAR DNA IN DROSOPHILA MELANOGASTER. Stanfield S, Helinski DR *Cell* 9: 333-45, Oct 76 (Eng) DL/77FEB41

DRUG

STUDIES WITH FLUTIOREX, A NEW ANORECTIC DRUG, ON GLUCOSE UPTAKE INTO HUMAN ISOLATED SKELETAL MUSCLE. Kirby MJ, Carageorgiou-Marcomihalakis H, Turner P *Br J Clin Pharmacol* 2: 541-2, Dec 75 (Eng) DL/77FEB6

MYOCARDIAL INFARCTION IN YOUNGER WOMEN. ASSOCIATED CLINICAL FEATURES AND RELATIONSHIP TO USE OF ORAL CONTRACEPTIVE DRUGS. Arthes FG, Masi AT *Chest* 70: 574-83, Nov 76 (Eng) DL/77FEB60

[IN VITRO ASSAY FOR ACTH-RELEASING ACTIVITY USING ACTH RADIOIMMUNOASSAY: ACTH RELEASING ACTIVITIES BY VARIOUS DRUGS (AUTHORS TRANSL)] Hashimoto K, Takahara J, Hosogi H, Ofuji N, Yasuhara T *Folia Endocrinol Jpn* 52: 114-24, 20 Feb 76 (Jpn) DL/77FEB82

[ACUTE SIDE-EFFECTS OF DRUGS. CAUSES AND PREVENTION] Bartels O *Fortschr Med* 94: 1532-40, 1543, 7 Oct 76 (Ger) DL/77FEB134

DRUG MODIFICATION OF HYPOTHERMIA INDUCED BY CNS GLUCOPENIA IN THE MOUSE. Mager M, Robinson S, Freinkel N *Biochem J* 157: 559-64, 1 Sep 76 (Eng) DL/77FEB499

THE BABOON IN ATHEROSCLEROSIS RESEARCH: COMPARISON WITH OTHER SPECIES AND USE IN TESTING DRUGS AFFECTING LIPID METABOLISM. Howard AN *Adv Exp Med Biol* 67: 77-87, 1976 (Eng) *DL/77FEB698

DRUG INDUCED

[DRUG-INDUCED PANMYELOPATHIES] Heimpel H, Kern P *Blut* 33: 1-10, Jul 76 (Ger) [35] DL/77FEB16

DRUG INDUCED HYPOGLYCEMIA

DRUG INDUCED HYPOGLYCEMIA AND HYPOTHERMIA. Carter WP Jr *J Maine Med Assoc* 67: 272, 279, Sep 76 (Eng) DL/77FEB197

[DRUG-INDUCED HYPOGLYCEMIA IN DIABETIC PATIENTS] Gay G, Debry G *Nouv Presse Med* 5: 2156-8, 9 Oct 76 (Fre) DL/77FEB344

DRUG METABOLISM

ALTERATION OF DRUG METABOLISM IN GILBERTS SYNDROME. Carulli N, Ponz de Leon M, Mauro E, Manenti F, Ferrari A *Gut* 17: 581-7, Aug 76 (Eng) DL/77FEB132

DUODENUM

THE EFFECT OF CHANGES IN BLOOD GLUCOSE ON THE MOTILITY OF THE DUODENUM IN SHEEP. Mostaghni K, Howard BR *Cornell Vet* 66: 598-603, Oct 76 (Eng) DL/77FEB59

[GANGLIOCYTIC PARANGLIOMA OF THE DUODENUM. ONE CASE WITH ELECTRON MICROSCOPE STUDY (AUTHORS TRANSL)] Kermarec J, Duplay H, Lesbros F *Arch Anat Cytol Pathol* 24: 261-8, 1976 (Fre) DL/77FEB492

[EXPERIMENTAL TRANSPLANTATION OF THE PANCREAS AND DUODENUM] Gutauskas M *Pol Przegl Chir* 48: 481-5, Apr 76 (Pol) *DL/77FEB621

DYE, AZO

MITOCHONDRIAL FUNCTIONAL CHANGES DURING HEPATIC HYPERPLASIA AND AZO DYE CARCINOGENESIS. Higgins ES, Rogers KS, Marks PA *Chem Biol Interact* 13: 295-305, Jun 76 (Eng) *DL/77FEB532

DYSTONIC BEHAVIOR

THYROTOXIC PERIODIC PARALYSIS: A PECULIAR CASE WITH UNUSUAL DYSTONIC BEHAVIOR AND VARIABLE RELATIONS OF PARALYSIS TO SERUM POTASSIUM LEVELS. Kusakabe T, Yoshida M, Nishikawa M *J Clin Endocrinol Metab* 43: 730-40, Oct 76 (Eng) DL/77FEB167

ELECTRON MICROSCOPY

EDEMATOUS-FIBROPLASTIC SYNDROME

[THE CENTRAL VITREO-RETINAL FIBROPLASTIC (EDEMATOUS-FIBROPLASTIC) SYNDROME (AUTHORS TRANSL)] Vodovozov AM *Klin Monatsbl Augenheilkd* 169: 212-25, Aug 76 (Ger) DL/77FEB227

EDUCATION

DIABETIC FOOT CARE EDUCATION IN A PODIATRY CLINIC: A PILOT STUDY. Scarlet JJ, Conner JC, Monastersky C *J Am Podiatry Assoc* 66: 798-800, Oct 76 (Eng) DL/77FEB173

ELDERLY

THE MANAGEMENT OF DIABETES IN THE ELDERLY. Walsh CH *Compr Ther* 2: 38-46, Nov 76 (Eng) DL/77FEB51

[CARDIAC INFARCTION IN THE ELDERLY] Konu V *Duodecim* 92: 1028-34, 1976 (Fin) DL/77FEB65

LIPID METABOLISM AND ISCHAEMIC HEART DISEASE IN THE ELDERLY. Horsey J, Livesley B *Age Ageing* 5: 75-83, May 76 (Eng) *DL/77FEB699

ELDERLY PATIENT

DIABETES IN THE ELDERLY PATIENT. Shagan BP *Med Clin North Am* 60: 1191-208, 1976 (Eng) [20] DL/77FEB240

ELECTRICAL ACTIVITY

INSULIN RESISTANCE AND RELATED ELECTRICAL ACTIVITY OF THE SMALL INTESTINE. Ruckebusch M, Weekes TE *Experientia* 32: 1163-5, 15 Sep 76 (Eng) DL/77FEB76

ELECTRICALLY STIMULATED

[MUSCLE METABOLISM OF GLUCOSE, LACTATE, FREE FATTY ACIDS, AND GLYCEROL AT REST AND DURING ELECTRICALLY STIMULATED EXERCISE IN THE PERFUSED RAT HIND LIMB (AUTHORS TRANSL)] Dieterle C, Gartner R, Dieterle P *Res Exp Med (Berl)* 168: 23-33, 22 Jul 76 (Ger) DL/77FEB378

ELECTROLYTE METABOLISM

LITHIUM EFFECTS ON CARBOHYDRATE AND ELECTROLYTE METABOLISM. PP. 319-22. Mellerup ET, Plenge P, Rafaelsen OJ *In: Ban TA, et al., ed. Psychopharmacology, sexual disorders and drug abuse*. Amsterdam, North-Holland, 1973. QV 77 P973 1972. (Eng) *DL/77FEB584

ELECTRON MICROSCOPY

PANCREATIC ISLET INJURY INDUCED BY METHYL MERCURIC CHLORIDE LIGHT AND ELECTRON MICROSCOPIC STUDIES. Shigenaga K *Kumamoto Med J* 29: 67-81, 30 Jun 76 (Eng) DL/77FEB232

HISTOLOGIC CHARACTERISTICS OF INSULINOMAS AND GASTRINOMAS. VALUE OF ARGYROPHILIA, METACHROMASIA, IMMUNOHISTOCHEMISTRY, AND ELECTRON MICROSCOPY FOR THE IDENTIFICATION OF GASTROINTESTINAL AND PANCREATIC ENDOCRINE CELLS AND THEIR TUMORS. Woodtli W, Hedinger C *Virchows Arch (Pathol Anat)* 371: 331-50, 7 Oct 76 (Eng) DL/77FEB425

[GANGLIOCYTIC PARANGLIOMA OF THE DUODENUM. ONE CASE WITH ELECTRON

Diabetes Literature—Keyword Index

ELECTROSTATIC

MICROSCOPE STUDY (AUTHORS TRANSL.) Kermarec J, Duplay H, Lesbros F *Arch Anat Cytol Pathol* 24: 261-8, 1976 (Fre) DL/77FEB492

KINETICS OF PROTEIN SYNTHESIS AND RELEASE IN THE STH-CELL OF THE MOUSE ANTERIOR PITUITARY AS REVEALED BY ELECTRON MICROSCOPIC AUTORADIOGRAPHY OF 3H-AMINO ACIDS. Hiura M, Komatsu M, Fujita H *Arch Histol Jpn* 38: 347-57, Feb 76 (Eng) *DL/77FEB709

ELECTROSTATIC

INFLUENCE OF ELECTROSTATIC SURFACE POTENTIAL ON MITOCHONDRIAL ADP-PHOSPHORYLATION. Schafer G, Rowohl-Quisthoudt G *FEBS Lett* 59: 48-51, 1 Nov 75 (Eng) *DL/77FEB556

EMOTIONAL

[THE SIGNIFICANCE OF STRESS INTENSITY FOR THE EMOTIONAL AND VISCERAL REACTIVITY, ESPECIALLY FOR BLOOD PRESSURE REGULATION] Hecht K, Hai NV, Moritz V, Hecht T *Acta Biol Med Ger* 35: 23-33, 1976 (Ger) DL/77FEB448

EMOTIONAL LABELING

EMOTIONAL LABELING AND OVEREATING IN OBSE AND NORMAL WEIGHT INDIVIDUALS. Slochower J *Psychosom Med* 38: 131-9, Mar-Apr 76 (Eng) *DL/77FEB629

ENCEPHALOMENINGITIS

SUBACUTE ENCEPHALOMENINGITIS STRICTLY INVOLVING THE BRAIN STEM AND DIABETES MELLITUS. Shuangshoti S, Viratchai C, Sreesai M *J Med Assoc Thai* 59: 464-9, Oct 76 (Eng) DL/77FEB198

ENCEPHALOPATHY

INSULIN, GLUCAGON, AMINOACID IMBALANCE, AND HEPATIC ENCEPHALOPATHY. Soeters PB, Fischer JE *Lancet* 2: 880-2, 23 Oct 76 (Eng) DL/77FEB245

ENDOCRINE

[XENOTRANSPLANTATION OF FETAL ENDOCRINE PANCREATIC TISSUE, ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 690-9, 1976 (Fre) DL/77FEB61

ADRENAL AND PANCREATIC ENDOCRINE RESPONSES TO HYPOXIA IN THE CONSCIOUS CALF. Bloom SR, Edwards AV, Hardy RN, Silver M *J Physiol (Lond)* 261: 271-83, Oct 76 (Eng) DL/77FEB212

ENDOCRINE AND EXTRA-ENDOCRINE STUDIES OF HYPOTHALAMIC HORMONES IN MAN. PP. 196-206. Kastin AJ, Schally AV, Ehrensing RH, Barbeau A *In: Lederis K, Cooper KE, ed. Recent studies of hypothalamic function. Basel, Karger, 1974. WL 312 165r 1973. (Eng) [44] *DL/77FEB590*

ENDOCRINE CELL

[THE ENDOCRINE CELLS OF THE GASTROINTESTINAL EPITHELIUM AND THE METABOLISM OF BIOGENIC AMINES IN THE GASTROINTESTINAL TRACT (AUTHORS TRANSL.)] Grube D *Prog Histochem Cytochem* 8: 1-128, 1976 (Ger) [968] DL/77FEB369

HISTOLOGIC CHARACTERISTICS OF INSULINOMAS AND GASTRINOMAS. VALUE OF

ARGYROPHILIA, METACHROMASIA, IMMUNOHISTOLOGY, AND ELECTRON MICROSCOPY FOR THE IDENTIFICATION OF GASTROINTESTINAL AND PANCREATIC ENDOCRINE CELLS AND THEIR TUMORS. Woodtli W, Hedinger C *Virchows Arch [Pathol Anat]* 371: 331-50, 7 Oct 76 (Eng) DL/77FEB425

[ENDOCRINE CELLS PRODUCING POLYPEPTIDES AND BIOGENIC AMINES] Bussolati G *Riv Istochim Norm Patol* 18: 95-118, 1974 (Ita) *DL/77FEB679

ENDOCRINE FUNCTION

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltzer C, Leclercq-Meyer V, Milalhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77FEB86

CHANGES IN CARBOHYDRATE METABOLISM AND ENDOCRINE FUNCTION OF REMNANT PANCREAS AFTER MAJOR PANCREATIC RESECTION. Yasugi H, Mizumoto R, Sakurai H, Honjo I *Am J Surg* 132: 577-80, Nov 76 (Eng) DL/77FEB477

ENDOCRINE PANCREAS

FUNCTIONAL DIFFERENTIATION OF THE CHICK ENDOCRINE PANCREAS. II. THE ALPHA CELLS AND GLUCAGON. Benzo CA, Stearns SB *Am J Anat* 147: 273-9, Nov 76 (Eng) DL/77FEB465

ENDOCRINE SYSTEM

THE ENDOCRINE SYSTEM IN PATIENTS WITH ACUTE RENAL INSUFFICIENCY. Kokot F, Kuska J *Kidney Int [Suppl]* 10: 826-31, Oct 76 (Eng) DL/77FEB223

ENDOMETRIAL CARCINOMA

[CARBOHYDRATE METABOLISM AND ENDOMETRIAL CARCINOMA] Orlandi C *Minerva Ginecol* 28: 219-26, Mar 76 (Ita) DL/77FEB330

PLASMA LEVELS OF FRACTIONATED ESTROGENS AND PITUITARY HORMONES IN ENDOMETRIAL CARCINOMA. Benjamin F, Deutsch S *Am J Obstet Gynecol* 126: 638-47, 15 Nov 76 (Eng) DL/77FEB470

ENDOMETRIOSIS

[THE GLYCOGEN CONTENT OF BLOOD AND UTERINE TISSUE IN WOMEN WITH MYOMA AND ENDOMETRIOSIS (AUTHORS TRANSL.)] Muck BR, Hommel G *Arch Gynaekol* 221: 129-37, 17 Sep 76 (Ger) DL/77FEB493

ENERGY

PLASMA INSULIN LEVELS IN WEANED PIGS FED PROTEIN OR ENERGY RESTRICTED DIETS. Atinmo T, Baldijao C, Pond WG, Barnes RH *J Nutr* 106: 1654-8, Nov 76 (Eng) DL/77FEB204

PROTEIN-ENERGY MALNUTRITION. DeMaeyer EM *WHO Monogr Ser* 23-54, 1976 (Eng) [46] DL/77FEB430

MYOCARDIAL HIGH ENERGY PHOSPHATES IN EXPERIMENTAL THYROTOXICOSIS IN GUINEA PIGS. Jahrmacker H, Rackwitz R, Otter HP *Recent Adv Stud Cardiac Struct Metab* 7: 199-207, 1975 (Eng) *DL/77FEB659

ENERGY, DIETARY

INFLUENCE OF DIETARY ENERGY DURING GESTATION ON LAMBLING PERFORMANCE, AND GLUCOSE METABOLISM IN FINN-

CROSS EWES. Prior RL, Christenson RK *J Anim Sci* 43: 1114-24, Nov 76 (Eng) DL/77FEB155

ENERGY METABOLISM

ENERGY METABOLISM AND PROTEOLYSIS IN TRAUMATIZED AND SEPTIC MAN. Clowes GH Jr, O'Donnell TF, Blackburn GL, Maki TN *Surg Clin North Am* 56: 1169-84, Oct 76 (Eng) [53] DL/77FEB406

[TRANSPORT OF FREE FATTY ACIDS AND ENERGY METABOLISM DURING HYPO- AND HYPERCALORIC FORMULA DIETS] Schonborn J, Dadrich E, Rabast U, Kasper H *Verh Dtsch Ges Inn Med* 81: 1402-5, 1975 (Ger) *DL/77FEB685

ENERGY PRODUCTION

EFFECTS OF REGIONAL ISCHEMIA ON METABOLISM OF GLUCOSE AND FATTY ACIDS. RELATIVE RATES OF AEROBIC AND ANAEROBIC ENERGY PRODUCTION DURING MYOCARDIAL INFARCTION AND COMPARISON WITH EFFECTS OF ANOXIA. Opie LH *Circ Res* 38: i52-74, May 76 (Eng) *DL/77FEB539

CONTROL OF ENERGY PRODUCTION IN MYOCARDIAL ISCHEMIA. Shrago E, Shug AL, Sul H, Bittar N, Folts JD *Circ Res* 38: 175-9, May 76 (Eng) *DL/77FEB540

ENERGY REQUIREMENT

[CURRENT STATUS OF THE PROBLEM OF SECURING THE ENERGY REQUIREMENTS OF A PATIENT BY THE PARENTERAL ROUTE] Kremer IuN, Vitolina SP *Vopr Pitan* 7: 16, Sep-Oct 76 (Rus) [101] DL/77FEB427

ENERGY STATE

ENERGY STATE AND ULTRASTRUCTURE OF THE SUBSTRATE-DEPLETED HEART. Dhalla NS, Yates JC, Olson RE *Recent Adv Stud Cardiac Struct Metab* 1: 81-94, 1972 (Eng) *DL/77FEB654

ENERGY TRANSDUCTION

CONFORMATIONAL CHANGES IN CYTOCHROME AA3 AND ATP SYNTHETASE OF THE MITOCHONDRIAL MEMBRANE AND THEIR ROLE IN MITOCHONDRIAL ENERGY TRANSDUCTION. Wikstrom MK, Saari HT *Mol Cell Biochem* 11: 17-33, 26 Mar 76 (Eng) [70] *DL/77FEB612

ENFLURANE

[ETRAN (ENFLURANE) ANESTHESIA (LITERATURE SURVEY)] Riabov GA, Semenov VN *Eksp Khir Anesteziol* 86-90, May-Jun 76 (Rus) DL/77FEB66

ENVIRONMENT

PRESENT PARADOXES IN THE ENVIRONMENTAL CONTROL OF HEPATIC PROLIFERATION. Leffert HL, Koch KS, Rabcava B *Cancer Res* 36: 4250-5, Nov 76 (Eng) DL/77FEB38

STRUCTURAL STUDIES ON DES-PENTAPEPTIDE (B26-30)-INSULIN. III. STATE OF AGGREGATION, TYROSYL ENVIRONMENT AND PEPTIDE BACKBONE CONFORMATION IN SOLUTION. Anonymous Sci Sin II 475-85, Jul-Aug 76 (Eng) DL/77FEB395

ENZYME

[ANTAGONISM IN THE ACTION OF HYDROCORTISONE AND INSULIN IN VIVO ON ENZYMES OF PYRUVATE AND MALATE METABOLISM IN ADIPOSE TISSUE] Ilin VS, Vasileva LE, Tokhadze OG *Biokhimiia* 41: 1646-50, Sep 76 (Rus) DL/77FEB12

ENZYME ACTIVITY

[REGULATION OF MICROSOMAL ENZYME ACTIVITY BY PHOSPHOLIPIDS IN VIVO] Burlakova EB, Dzhalibova MI, Molochkina EM *Dokl Akad Nauk SSSR* 227: 991-4, 1976 (Rus) *DL/77FEB547

ACETATE KINASE FROM VEILLONELLA ALCALESCENS. REGULATION OF ENZYME ACTIVITY BY SUCCINATE AND SUBSTRATES. Bowman CM, Valdez RO, Nishimura JS *J Biol Chem* 251: 3117-21, 25 May 76 (Eng) *DL/77FEB573

ENZYME, IMMOBILIZED

[PROTEIN HYDROLYSIS BY IMMOBILIZED ENZYMES] Lasch J, Koelsch R, Roth P, Gabert A, Marquardt I, Hanson H *Acta Biol Med Ger* 35: 735-43, 1976 (Ger) DL/77FEB452

EPIDEMIOLOGY

EPIDEMIOLOGIC FINDINGS ON THE RELATIONSHIP OF TIME OF DAY AND TIME SINCE LAST MEAL TO GLUCOSE TOLERANCE. Mayer KH, Stamler J, Dyer A, Freinkel N, Stamler R, Berkson DM, Farber B *Diabetes* 25: 936-43, Oct 76 (Eng) DL/77FEB100

[PATHOGENESIS, PHYSIOPATHOLOGY, AND EPIDEMIOLOGY OF DIABETIC MICROANGIOPATHY] Hauteceuvre M, Basdevant A, Slama G, Tchobrousky G *Rev Prat* 26: 3085-93, 11 Oct 76 (Fre) DL/77FEB381

EPIDIDYMAL ADIPOSE TISSUE

TRIGLYCERIDE METABOLISM IN EPIDIDYMAL ADIPOSE TISSUE OF OBESE ANIMALS. Okuda H *Pharmacol Biochem Behav* 3: 145-7, 1975 (Eng) *DL/77FEB626

EPINEPHRINE

UTILIZATION OF ENDOGENOUS LIPIDS AND GLYCOGEN IN THE PERFUSED RAT HEART: EFFECTS OF HYPOXIA AND EPINEPHRINE. Crass MF 3d, Shipp JC, Pieper GM *Recent Adv Stud Cardiac Struct Metab* 7: 219-24, 1975 (Eng) *DL/77FEB661

EPITHELIUM

[THE ENDOCRINE CELLS OF THE GASTROINTESTINAL EPITHELIUM AND THE METABOLISM OF BIOGENIC AMINES IN THE GASTROINTESTINAL TRACT (AUTHORS TRANSL)] Grube D *Prog Histochem Cytochem* 8: 1-128, 1976 (Ger) [1968] DL/77FEB369

ERGOCRYPTINE

SEROTONINERGIC CONTROL OF HUMAN GROWTH HORMONE SECRETION: THE ACTIONS OF L-DOPA AND 2-BROMO-ALPHA-ERGOCRYPTINE. PP. 222-35. Smythe GA, Compton PJ, Lazarus L *In* Pecile A, Muller EE, ed. *Growth hormone and related peptides*. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB189

ERUCIC ACID

METABOLISM OF ERUCIC ACID IN THE ISOLATED PERFUSED RAT HEART. Vasdev SC, Kako KJ *Biochim Biophys Acta* 431: 22-32, 22 Apr 76 (Eng) *DL/77FEB523

ERUCIC ACID METABOLISM BY CULTURED BEATING HEART CELLS OF THE POST-NATAL RAT. Pinson A, Padieu P *Recent Adv Stud Cardiac Struct Metab* 7: 29-40, 1975 (Eng) *DL/77FEB672

ERUPTION

PREMATURE ERUPTION AND MACRODON-TIA ASSOCIATED WITH INSULIN RESISTANT DIABETES AND PINEAL HYPERPLASIA. REPORT OF TWO CASES. Holmes J, Tanner MS *Br Dent J* 141: 280-4, 2 Nov 76 (Eng) DL/77FEB4

ERYTHROCYTE, TURKEY

HOLOCATALYTIC STATE OF ADENYLATE CYCLASE IN TURKEY ERYTHROCYTE MEMBRANES: FORMATION WITH GUANYLYLMIDODIPHOSPHATE PLUS ISOPROTERENOL WITHOUT EFFECT ON AFFINITY OF BETA-RECEPTOR. Spiegel AM, Brown EM, Fedak SA, Woodard CJ, Aurbach GD *J Cyclic Nucleotide Res* 2: 47-56, 1976 (Eng) *DL/77FEB583

ESCHERICHIA COLI

THE HEXOSE PHOSPHATE TRANSPORT SYSTEM OF ESCHERICHIA COLI. Dietz GW Jr *Adv Enzymol* 44: 237-59, 1976 (Eng) *DL/77FEB692

ESTRADIOL

PLASMA CONCENTRATIONS OF UNCONJUGATED ESTRONE, ESTRADIOL-17BETA AND ESTRIOL, AND HCS THROUGHOUT PREGNANCY IN DIABETICS AND GESTATIONAL DIABETICS. De Hertogh R, Thomas K, Hoet JJ, Vanderheyden I *Diabetologia* 12: 455-61, Oct 76 (Eng) DL/77FEB114

ESTRIOL

PLASMA CONCENTRATIONS OF UNCONJUGATED ESTRONE, ESTRADIOL-17BETA AND ESTRIOL, AND HCS THROUGHOUT PREGNANCY IN DIABETICS AND GESTATIONAL DIABETICS. De Hertogh R, Thomas K, Hoet JJ, Vanderheyden I *Diabetologia* 12: 455-61, Oct 76 (Eng) DL/77FEB114

ESTROGEN

PLASMA LEVELS OF FRACTIONATED ESTROGENS AND PITUITARY HORMONES IN ENDOMETRIAL CARCINOMA. Benjamin F, Deutsch S *Am J Obstet Gynecol* 126: 638-47, 15 Nov 76 (Eng) DL/77FEB470

ACUTE AND CHRONIC ESTROGEN EFFECTS UPON SERUM SOMATOMEDIN ACTIVITY, GROWTH HORMONE, AND PROLACTIN IN MAN. Wiedemann E, Schwartz E, Frantz AG Jr *Clin Endocrinol Metab* 42: 942-52, May 76 (Eng) *DL/77FEB577

ESTRONE

PLASMA CONCENTRATIONS OF UNCONJUGATED ESTRONE, ESTRADIOL-17BETA AND ESTRIOL, AND HCS THROUGHOUT PREGNANCY IN DIABETICS AND GESTATIONAL DIABETICS. De Hertogh R, Thomas K, Hoet JJ, Vanderheyden I *Diabetologia* 12: 455-61, Oct 76 (Eng) DL/77FEB114

EVOLUTIONARY ORIGIN

ETHANOL

EFFECT OF ETHANOL ON THE ACTIVITY OF LIPOPROTEIN LIPASE IN ADIPOSE TISSUE OF MALE AND FEMALE RATS. Johnson O, Hernell O *Nutr Metab* 19: 41-4, 1975 (Eng) *DL/77FEB616

MECHANISM OF ETHANOL-INDUCED TRIGLYCERIDE ACCUMULATION IN THE RABBIT HEART. Kako KJ, Kikuchi T *Recent Adv Stud Cardiac Struct Metab* 1: 596-604, 1972 (Eng) *DL/77FEB647

TEMPERATURE-DEPENDENT ETHANOL INHIBITION OF [14C]LEUCINE INCORPORATION IN MOUSE HEART SLICES. Gailis L. *Recent Adv Stud Cardiac Struct Metab* 7: 443-9, 1975 (Eng) *DL/77FEB674

MYOCARDIAL CELL DAMAGE DUE TO ETHANOL. Gvozdzjak A, Borovic F, Bada V, Kruty F, Niederland TR, Gvozdzjak J *Recent Adv Stud Cardiac Struct Metab* 7: 451-7, 1975 (Eng) *DL/77FEB675

ETHANOL ABSORPTION

AUGMENTATION OF ETHANOL ABSORPTION BY MONO- AND DISACCHARIDES. Braitman SA, Gottlieb LS, Vitale JJ *Gastroenterology* 70: 1101-7, Jun 76 (Eng) *DL/77FEB557

ETHYL ACETATE

EFFECT OF ETHYL ACETATE ON THE TRANSPORT OF SODIUM AND GLUCOSE IN THE HAMSTER SMALL INTESTINE IN VITRO. Esposito G, Faelli A, Capraro V *Biochim Biophys Acta* 426: 489-98, 19 Mar 76 (Eng) *DL/77FEB520

ETHYL ALCOHOL

[AMOUNT OF ACETONE AND ETHYL ALCOHOL IN THE BLOOD AND URINE OF PATIENTS WITH DIABETES MELLITUS AND ISCHEMIC HEART DISEASE] Kamysheva EP, Sorochkina RM, Kapatsinskaja LK, Romanova LN, Danilova MI *Sov Med* 147-8, Apr 76 (Rus) DL/77FEB403

ETHYLESTRENOL

EFFECT OF ETHYLESTRENOL ON FIBRINOLYSIS IN THE VESSEL WALL. Hedner U, Nilsson IM, Isacson S *Br Med J* 2: 729-31, 25 Sep 76 (Eng) DL/77FEB24

EFFECT OF PHENFORMIN AND ETHYLESTRENOL ON BLOOD FIBRINOLYTIC ACTIVITY ON RABBITS MAINTAINED ON HIGH CHOLESTEROL DIET. Sharma KK, Chowdhury NK, Sharma AL *Indian J Med Res* 64: 915-22, Jun 76 (Eng) DL/77FEB149

ETIOPATHOGENESIS

[EARLY POSTNATAL OVERFEEDING AS AN ETIOPATHOGENETIC FACTOR IN ADULT OBESITY] Dörner G, Hagen N, Witthuhn W *Acta Biol Med Ger* 35: 799-803, 1976 (Ger) DL/77FEB453

EVOLUTIONARY ORIGIN

THE EVOLUTIONARY ORIGIN OF PROINSULIN. AMINO ACID SEQUENCE HOMOLOGY WITH THE TRYPSIN-RELATED SERINE PROTEASES DETECTED AND EVALUATED BY NEW STATISTICAL METHODS. de Haen C, Swanson E, Teller DC *J Mol Biol* 106: 639-61, 25 Sep 76 (Eng) DL/77FEB215

EXCRETORY

EXCRETORY

THE ACTION OF THE EXCRETORY APPARATUS OF CALLIPHORA VOMITORIA IN HANDLING INJECTED SUGAR SOLUTION. Knowles G *J Exp Biol* 64: 131-40, Feb 76 (Eng) *DL/77FEB596

EXERCISE

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL)] Leclercq-Meyer V, Malaisse WJ *Diabetes Metab* 1: 119-22, Jun 75 (Fre) DL/77FEB93

[MUSCLE METABOLISM OF GLUCOSE, LACTATE, FREE FATTY ACIDS, AND GLYCEROL AT REST AND DURING ELECTRICALLY STIMULATED EXERCISE IN THE PERFUSED RAT HIND LIMB (AUTHORS TRANSL)] Dieterle C, Gartner R, Dieterle P *Res Exp Med (Berl)* 168: 23-33, 22 Jul 76 (Ger) DL/77FEB378

ARTERIAL-HEPATIC VEIN GLUCOSE DIFFERENCES IN NORMAL AND DIABETIC MAN AFTER A GLUCOSE INFUSION AT REST AND AFTER EXERCISE. Machlum S, Jervell J, Pruett ED *Scand J Clin Lab Invest* 36: 415-22, Sep 76 (Eng) DL/77FEB391

EFFECTS OF EXERCISE AND PHYSICAL TRAINING ON CARBOHYDRATE AND LIPID METABOLISM IN MAN. Bjontorp P *Adv Cardiol* 18: 158-66, 1976 (Eng) DL/77FEB462

GROWTH HORMONE IN EXERCISE: COMPARISON OF PHYSIOLOGICAL AND PHARMACOLOGICAL STIMULI. Sutton J, Lazarus L *Biochem J* 157: 523-7, 1 Sep 76 (Eng) DL/77FEB498

GLUCOSE METABOLISM IN PERFUSED SKELETAL MUSCLE. EFFECTS OF STARVATION, DIABETES, FATTY ACIDS, ACETOACETATE, INSULIN AND EXERCISE ON GLUCOSE UPTAKE AND DISPOSITION. Berger M, Hagg SA, Goodman MN, Ruderman NB *Biochem J* 158: 191-202, 15 Aug 76 (Eng) DL/77FEB504

MYOCARDIAL SUBSTRATE UPTAKE IN MEN DURING EXERCISE UNDER HYPOXIC CONDITIONS. Keul J, Doll E *Recent Adv Stud Cardiac Struct Metab* 7: 261-6, 1975 (Eng) *DL/77FEB667

EXERCISE, PHYSICAL

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL AND GROWTH HORMONE LEVELS IN YOUNG WEIGHT LIFTERS] Lukaszewska J, Biczowa B, Bobilewicz D, Wilk M, Obuchowicz-Fidelus B *Endokrynol Pol* 27: 149-57, Mar-Apr 76 (Pol) *DL/77FEB549

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL, TESTOSTERONE AND GROWTH HORMONE LEVELS IN WEIGHT LIFTERS] Skierska E, Ustupka J, Biczowa B, Lukaszewska J *Endokrynol Pol* 27: 159-65, Mar-Apr 76 (Pol) *DL/77FEB550

RESPONSES OF THE HEART MITOCHONDRIA TO CHRONIC CARDIAC OVERLOAD AND PHYSICAL EXERCISE. Wollenberger A *Recent Adv Stud Cardiac Struct Metab* 1: 213-22, 1972 (Eng) *DL/77FEB640

EXOCRINE PANCREAS

EXOCRINE PANCREATIC FUNCTION IN JUVENILE-ONSET DIABETES MELLITUS. Frier BM, Saunders JH, Wormsley KG, Bouchier IA *Gut* 17: 685-91, Sep 76 (Eng) DL/77FEB133

EFFECTS OF SOMATOSTATIN ON PANCREATIC EXOCRINE FUNCTION. INTERACTION WITH SECRETIN. Deschodt-Lanckman M, Robberecht P, Pector JC, Christophe J *Arch Int Physiol Biochim* 83: 960-1, Dec 75 (Eng) *DL/77FEB705

EXTRAPANCREATIC GLUCAGON

EXTRAPANCREATIC GLUCAGON IN THE DOG. Vranic M, Engerman R, Doi K, Morita S, Yip CC *Metabolism* 25: 1469-73, Nov 76 (Eng) DL/77FEB302

FAMILY

THE DEVELOPING DIABETIC IDENTITY: A STUDY OF FAMILY INFLUENCE. Benoliel JO *Commun Nurs Res* 3: 14-32, Sep 70 (Eng) DL/77FEB56

CRITIQUE OF THE DEVELOPING DIABETIC IDENTITY: A STUDY OF FAMILY INFLUENCE. Gunter LM *Commun Nurs Res* 3: 33-40, Sep 70 (Eng) DL/77FEB57

FASTED

POTENTIATION OF GLUCOSE-INDUCED INSULIN RELEASE BY GLUCOSE IN THE ISOLATED PANCREAS OF FED AND FASTED RATS. Efendic S, Cerasi E, Luft R, Gladnikoff G *Diabetes* 25: 949-54, Oct 76 (Eng) DL/77FEB102

ESTIMATES OF THE KINETIC PARAMETERS OF GROWTH HORMONE METABOLISM IN FED AND FASTED CALVES AND SHEEP. Trenkle A *J Anim Sci* 43: 1035-43, Nov 76 (Eng) DL/77FEB153

FASTING

[FASTING VALUES OF CARBOHYDRATE- AND LIPID METABOLISM IN HEALTHY SUBJECTS AND IN PATIENTS WITH DIABETES MELLITUS] Berg G, Matzkies F, Sailer D *Fortschr Med* 94: 1541-3, 7 Oct 76 (Ger) DL/77FEB135

A STUDY OF THE EFFECTS OF FASTING TIME ON THE ONE HOUR GLUCOSE TOLERANCE TEST. Parker RD *J Chronic Dis* 29: 667-76, Oct 76 (Eng) DL/77FEB165

FAT

STEROL BALANCE IN HYPERLIPIDEMIC PATIENTS AFTER DIETARY EXCHANGE OF CARBOHYDRATE FOR FAT. Ahrens EH Jr *J Lipid Res* 17: 97-106, Mar 76 (Eng) *DL/77FEB595

LIPOLYSIS AS A FUNCTION OF CELL NUMBERS AND FAT CONTENT: COMPARISON BETWEEN ISOLATED RAT AND DOG ADIPOCYTES. Hotta N, Sirek OV, Sirek A, Poliova Z, Pahlavi Med J 7: 167-79, Apr 76 (Eng) *DL/77FEB618

[BEHAVIOR OF KETONE BODIES, BLOOD LIPIDS AND OF VARIOUS LABORATORY-CHEMISTRY PARAMETERS DURING ISOCALORIC HIGH-CARBOHYDRATE AND HIGH-FAT REDUCING DIETS] Schubert WR, Vogel B, Schmulling RM, Eggstein M *Verh Dtsch Ges Inn Med* 81: 1397-1400, 1975 (Ger) *DL/77FEB684

FAT CELL

REGULATION BY LIPOLYTIC AND ANTILIPOLYTIC COMPOUNDS OF THE PHOSPHORYLATION OF SPECIFIC PROTEINS IN ISOLATED INTACT FAT CELLS. Forn J, Greengard P *Arch Biochem Biophys* 176: 721-33, Oct 76 (Eng) DL/77FEB488

CHARACTERIZATION OF (3H)CYTOCHALASIN B BINDING TO THE FAT CELL PLASMA MEMBRANE. Czech MP *J Biol Chem* 251: 2905-10, 25 May 76 (Eng) *DL/77FEB570

HUMAN FAT CELL SIZING--A QUICK, SIMPLE METHOD. Ashwell M, Priest P, Bondoux M, Sowter C, McPherson CK *J Lipid Res* 17: 190-2, Mar 76 (Eng) *DL/77FEB594

A HIGHLY SENSITIVE ASSAY FOR MICROSMAL DIACYGLYCEROL ACYLTRANSFERASE ACTIVITY FROM ISOLATED FAT CELLS. Bell RM, Miller Y *Anal Biochem* 71: 436-43, Apr 76 (Eng) *DL/77FEB702

A RAPID IMMUNOLOGICAL PROCEDURE FOR THE ISOLATION OF HORMONALLY SENSITIVE RAT FAT-CELL PLASMA MEMBRANE. Luzio JP, Newby AC, Hales CN *Biochem J* 154: 11-21, 15 Jan 76 (Eng) *DL/77FEB714

FAT CELL, ISOLATED

THE EFFECTS OF MAZINDOL AND 46-034 (SANDOZ) ON GLUCOSE OXIDATION AND INSULIN BINDING BY RAT ISOLATED FAT CELLS. Harrison LC, King-Roach AP *Clin Exp Pharmacol Physiol* 3: 503-6, Sep-Oct 76 (Eng) DL/77FEB46

SOME ASPECTS OF FATTY ACID OXIDATION IN ISOLATED FAT-CELL MITOCHONDRIA FROM RAT. Harper RD, Saggerson ED *Biochem J* 152: 485-94, Dec 75 (Eng) *DL/77FEB711

FAT DIET

METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E *Diabetes Metab* 1: 77-85, Jun 75 (Eng) DL/77FEB95

FAT, DIETARY

[EFFECT OF UNSATURATED DIETARY FATS ON GROWTH AND LIPOGENESIS IN RATS] Demarne Y, Toure M, Flanzy J, Lecourtier MJ *Nutr Metab* 19: 28-40, 1975 (Fre) *DL/77FEB615

INFLUENCES OF DIETARY FATS ON THE CORONARY FLOW AND OXYGEN CONSUMPTION OF THE ISOLATED RAT HEART. de Deckere EA, ten Hoor F *Recent Adv Stud Cardiac Struct Metab* 7: 475-83, 1975 (Eng) *DL/77FEB676

FAT INGESTION

INFLUENCE OF FAT INGESTION ON LECITHIN:CHOLESTEROL ACYLTRANSFER RATE IN PLASMA OF NORMAL PERSONS. Wallentin L, Vikrot O *Scand J Clin Lab Invest* 36: 473-9, Sep 76 (Eng) DL/77FEB392

FAT MOBILIZATION

MECHANISM OF ACTIONS OF ADRENALINE AND ACTH IN FAT MOBILIZATION. Okuda H *Pharmacol Biochem Behav* 3: 149-53, 1975 (Eng) *DL/77FEB627

FATTY ACID

[FATTY ACID PATTERNS AND GLUCOSE TOLERANCE IN HUNTINGTONS CHOREA (AUTHORS TRANSL)] Schubotz R, Hausmann L, Kalfarnik H, Zehner J, Oepen H *Res Exp Med (Berl)* 167: 203-15, 2 Jul 76 (Ger) DL/77FEB376

SERUM TRIGLYCERIDES AND FATTY ACID INCORPORATION INTO HUMAN ADIPOSE

Diabetes Literature—Keyword Index

FIBRINOLYTIC ACTIVITY

FEEDBACK, INSULIN-GLUCAGON

INTRAISLET NEGATIVE INSULIN-GLUCAGON FEEDBACK. Samols E, Harrison J *Metabolism* 25: 1443-7, Nov 76 (Eng) DL/77FEB293

FEEDBACK REGULATOR

INFLUENCE ON ADIPOCYTE PLASMA MEMBRANE BOUND PROTEIN KINASE BY FEEDBACK REGULATOR. Ho R, Russell T, Asakawa T, Snyder RP *J Cyclic Nucleotide Res* 1: 349-58, 1975 (Eng) *DL/77FEB580

FENFLURAMINE

EFFECT OF SOME RECEPTOR ANTAGONISTS ON FENFLURAMINE-INDUCED GLUCOSE UPTAKE INTO THE ISOLATED RAT HEMIDIAPHRAGM [PROCEEDINGS]. Kirby MJ, Turner P *Br J Pharmacol* 58: 286p-287p, Oct 76 (Eng) DL/77FEB18

FETAL

THE EFFECT OF ORAL RITODRINE ON MATERNAL AND FETAL CARBOHYDRATE METABOLISM. Blouin D, Murray MA, Beard RW *Br J Obstet Gynaecol* 83: 711-5, Sep 76 (Eng) DL/77FEB8

[XENOTRANSPLANTATION OF FETAL ENDOCRINE PANCREATIC TISSUE. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 690-9, 1976 (Fre) DL/77FEB61

FOETAL RAT PANCREAS IN ORGAN CULTURE. EFFECT OF CORTICOSTERONE CONCENTRATIONS ON THE ACINAR AND ISLET CELL COMPONENTS. McEvoy RC, Hegre OD, Lazarow A *Differentiation* 6: 17-26, 16 Mar 76 (Eng) DL/77FEB125

FETAL PANCREAS

[FUNCTION TEST OF THE HUMAN FETAL PANCREAS (AUTHORS TRANSL.) Nakai T, Yamada R *Jpn J Clin Pathol* 24: 673-7, Aug 76 (Jpn) DL/77FEB221

FETUS

TIME COURSE OF GLUCOSE-INDUCED INCREASE IN PLASMA INSULIN IN THE RAT FOETUS IN UTERO. Dervran A, Girard JR *J Endocrinol* 70: 519-20, Sep 76 (Eng) DL/77FEB199

MATERNAL PROTEIN MALNUTRITION DURING GESTATION ALONE AND ITS EFFECTS ON PLASMA INSULIN LEVELS OF THE PREGNANT PIG, ITS FETUSES AND THE DEVELOPING OFFSPRING. Atinmo T, Baldijao C, Pond WG, Barnes RH *J Nutr* 106: 1647-53, Nov 76 (Eng) DL/77FEB203

FIBER

FIBER AND DIABETES [EDITORIAL]. Ricketts HT *JAMA* 236: 2321-2, 15 Nov 76 (Eng) DL/77FEB219

FIBRINOLYSIS

EFFECT OF ETHYLOESTRENOL ON FIBRINOLYSIS IN THE VESSEL WALL. Hedner U, Nilsson IM, Isacson S *Br Med J* 2: 729-31, 25 Sep 76 (Eng) DL/77FEB24

FIBRINOLYTIC ACTIVITY

[BLOOD CLOTTING AND FIBRINOLYTIC ACTIVITY AND PLATELET CHANGES IN

TISSUE (TIAT). THEIR RELATIONS WITH ADIPOSE TISSUE CHARACTERISTICS AND GLUCOSE TOLERANCE. Walldius G *Acta Med Scand* 200: 409-21, 1976 (Eng) DL/77FEB460

GLUCOSE METABOLISM IN PERFUSED SKELETAL MUSCLE. EFFECTS OF STARVATION, DIABETES, FATTY ACIDS, ACETOACETATE, INSULIN AND EXERCISE ON GLUCOSE UPTAKE AND DISPOSITION. Berger M, Hagg SA, Goodman MN, Ruderman NB *Biochem J* 158: 191-202, 15 Aug 76 (Eng) DL/77FEB504

EFFECTS OF REGIONAL ISCHEMIA ON METABOLISM OF GLUCOSE AND FATTY ACIDS. RELATIVE RATES OF AEROBIC AND ANAEROBIC ENERGY PRODUCTION DURING MYOCARDIAL INFARCTION AND COMPARISON WITH EFFECTS OF ANOXIA. Opie LH *Circ Res* 38: i52-74, May 76 (Eng) *DL/77FEB539

[FATTY ACID PATTERN OF LIPID FRACTIONS IN THE BLOOD. II. CONTROL PERSONS] Lohninger A, Weigl K, Riedl W, Heinkelmann W, Tolle W, Schlag G, Landauer B, Blumel G *Med Welt* 27: 923-6, 7 May 76 (Ger) *DL/77FEB609

[INFLUENCE OF ANGIOTENSIN II ON THE FATTY ACID LEVEL IN THE TRIACYLGLYCERIDES OF THE BLOOD PLASMA OF RABBITS] Mikhailov ML *Patol Fiziol Eksp Ter* 75-7, May-Jun 75 (Rus) *DL/77FEB620

METABOLISM OF EXOGENOUS AND ENDOGENOUS FATTY ACIDS IN HEART MUSCLE. Crass MF 3d, Shipp JC *Recent Adv Stud Cardiac Struct Metab* 1: 115-26, 1972 (Eng) *DL/77FEB634

THE INCORPORATION OF RADIOACTIVE FATTY ACIDS AND OF RADIOACTIVE DERIVATIVES OF GLUCOSE INTO THE PHOSPHOLIPIDS OF SUBSYNAPTOSOMAL FRACTIONS OF CEREBRAL CORTEX. Baker R, Dowdall MJ, Whittaker VP *Biochem J* 154: 65-75, 15 Jan 76 (Eng) *DL/77FEB715

FATTY ACID, BETA HYDROXY

BETA-HYDROXY FATTY ACID PRODUCTION DURING FATTY ACID OXIDATION BY HEART MITOCHONDRIA. Hull FE, Radloff JF, Sweeley CC *Recent Adv Stud Cardiac Struct Metab* 7: 13-21, 1975 (Eng) *DL/77FEB657

FATTY ACID DEFICIENCY

RAPID ONSET OF ESSENTIAL FATTY ACID DEFICIENCY IN THE NEWBORN. Friedman Z, Danon A, Stahlman MT, Oates JA *Pediatrics* 58: 640-9, Nov 76 (Eng) DL/77FEB337

FATTY ACID, FREE

PROPRANOLOL EFFECT ON PLASMA GLUCOSE, FREE FATTY ACID, INSULIN, AND GROWTH HORMONE IN GRAVES DISEASE. Ortigosa JL, Mendoza F, Argote RM, Garcia G, Cervantes C, Parra A *Metabolism* 25: 1201-7, Nov 76 (Eng) DL/77FEB260

[MUSCLE METABOLISM OF GLUCOSE, LACTATE, FREE FATTY ACIDS, AND GLYCEROL AT REST AND DURING ELECTRICALLY STIMULATED EXERCISE IN THE PERFUSED RAT HIND LIMB (AUTHORS TRANSL.) Dieterle C, Gartner R, Dieterle P *Res Exp Med (Berl)* 168: 23-33, 22 Jul 76 (Ger) DL/77FEB378

[THE BEHAVIOR OF LIPOPROTEINS, CHOLESTEROL, TRIGLYCERIDES, FREE FATTY ACIDS AND FREE GLYCEROL IN SERUM OF RATS WITH EXPERIMENTAL HYPERTHYROXINEMIA AND HYPOTHYROIDISM] Hubner G, Renner K, Rauer G *Endokrinologie* 67: 60-6, Mar 67 (Ger) *DL/77FEB548

THE UPTAKE OF FREE FATTY ACID IN THE RAT HEART. Harris P, Achillea M, Gloster J *Recent Adv Stud Cardiac Struct Metab* 7: 23-7, 1975 (Eng) *DL/77FEB663

[TRANSPORT OF FREE FATTY ACIDS AND ENERGY METABOLISM DURING HYPOTHYROIDISM AND HYPERCALORIC FORMULA DIETS] Schonborn J, Dadrach E, Rabast U, Kasper H *Verh Dtsch Ges Inn Med* 81: 1402-5, 1975 (Ger) *DL/77FEB685

THE EFFECT OF ANTILIPOLYTIC AGENTS ON CYCLIC AMP, FREE FATTY ACID AND TOTAL CATECHOLAMINE CONCENTRATIONS IN PLASMA. Strange RC, Rowe MJ, Mjos OD, Oliver MF *Acta Med Scand* 199: 421-4, 1976 (Eng) *DL/77FEB691

FATTY ACID MEMBRANE

PREPARATION AND PROPERTIES OF VESICLES ENCLOSED BY FATTY ACID MEMBRANES. Gebicki JM, Hicks M *Chem Phys Lipids* 16: 142-60, Mar 76 (Eng) *DL/77FEB534

FATTY ACID METABOLISM

MODULATION OF FATTY ACID METABOLISM BY GLUCAGON IN MAN. IV. EFFECTS OF A PHYSIOLOGIC HORMONE INFUSION IN NORMAL MAN. Schade DS, Eaton RP *Diabetes* 25: 978-83, Oct 76 (Eng) DL/77FEB107

FATTY ACID OXIDATION

BETA-HYDROXY FATTY ACID PRODUCTION DURING FATTY ACID OXIDATION BY HEART MITOCHONDRIA. Hull FE, Radloff JF, Sweeley CC *Recent Adv Stud Cardiac Struct Metab* 7: 13-21, 1975 (Eng) *DL/77FEB657

SOME ASPECTS OF FATTY ACID OXIDATION IN ISOLATED FAT-CELL MITOCHONDRIA FROM RAT. Harper RD, Saggerson ED *Biochem J* 152: 485-94, Dec 75 (Eng) *DL/77FEB711

FATTY ACID SYNTHESIS

EVIDENCE FOR A DIRECT EFFECT ON FATTY ACID SYNTHESIS IN RELATION TO GENE CONTROL OF MEMBRANE PHOSPHOLIPID SYNTHESIS. Nunn WD, Cronan JE Jr *J Mol Biol* 102: 167-72, 25 Mar 76 (Eng) *DL/77FEB602

FATTY LIVER

[FATTY LIVER IN A HOSPITAL POPULATION, 1970-1974] Haagsma B, Marck K, van der Woude FJ *Ned Tijdschr Geneesk* 120: 1625-30, 25 Sep 76 (Dut) DL/77FEB328

FED

INSULIN SECRETION AND BIOSYNTHESIS IN SUCCROSE FED RATS. Laube H, Schatz H, Nierle C, Fussganger R, Pfeiffer EF *Diabetologia* 12: 441-6, Oct 76 (Eng) DL/77FEB112

PLASMA INSULIN LEVELS IN WEANED PIGS FED PROTEIN OR ENERGY RESTRICTED DIETS. Atinmo T, Baldijao C, Pond WG, Barnes RH *J Nutr* 106: 1654-8, Nov 76 (Eng) DL/77FEB204

FEED BACK INHIBITION

FEED-BACK INHIBITION OF INSULIN SECRETION IN SUBJECTS WITH HIGH AND LOW INSULIN RESPONSE TO GLUCOSE. Cerasi E *Diabetes Metab* 1: 73-6, Jun 75 (Eng) DL/77FEB94

FIBRINOLYTIC ACTIVITY, BLOOD

CHRONIC PERIPHERAL ARTERIAL INSUFFICIENCY] Kaniak J, Kotschy M, Kurzawska M, Włodarczyk J, Prastowski W *Pol Tyg Lek* 31: 1757-60, 11 Oct 76 (Pol) DL/77FEB350

FIBRINOLYTIC ACTIVITY, BLOOD

EFFECT OF PHENFORMIN AND ETHYLOESTRENOL ON BLOOD FIBRINOLYTIC ACTIVITY ON RABBITS MAINTAINED ON HIGH CHOLESTEROL DIET. Sharma KK, Chowdhury NK, Sharma AL *Indian J Med Res* 64: 915-22, Jun 76 (Eng) DL/77FEB149

FIBRINOLYTIC THERAPY

MALIGNANT ATROPHIC PAPULOSIS OF DEPOS. REPORT OF A PATIENT WHO FAILED TO RESPOND TO FIBRINOLYTIC THERAPY. Howden SM, Hodge SJ, Herndon JH, Freeman RG *Arch Dermatol* 112: 1582-8, Nov 76 (Eng) [61] DL/77FEB490

FIBROBLAST, CHICK EMBRYO

MITOGEN RECEPTORS IN CHICK EMBRYO FIBROBLASTS. KINETICS, SPECIFICITY, UNMASKING, AND SYNTHESIS OF 125I-INSULIN BINDING SITES. Raizada MK, Perdue JF *J Biol Chem* 251: 6445-55, 25 Oct 76 (Eng) DL/77FEB159

FIBROBLAST, DIPLOID

STUDIES OF HUMAN DIPLOID FIBROBLAST GROWTH. I. RESPONSES OF NORMAL AND HYPOTHYROID CELLS TO FIBROBLAST GROWTH FACTOR, INSULIN, AND SERUM. Jones KL, Addison J *J Clin Endocrinol Metab* 43: 721-9, Oct 76 (Eng) DL/77FEB166

FIBROBLAST GROWTH FACTOR

STUDIES OF HUMAN DIPLOID FIBROBLAST GROWTH. I. RESPONSES OF NORMAL AND HYPOTHYROID CELLS TO FIBROBLAST GROWTH FACTOR, INSULIN, AND SERUM. Jones KL, Addison J *J Clin Endocrinol Metab* 43: 721-9, Oct 76 (Eng) DL/77FEB166

FIBROSIS, CYSTIC

MECONIUM ILEUS EQUIVALENT IN ADULTS WITH CYSTIC FIBROSIS OF PANCREAS: A REPORT OF SIX CASES. Hodson ME, Mearns MB, Batten JC *Br Med J* 2: 790-1, 2 Oct 76 (Eng) DL/77FEB27

FICOLL

THE USE OF FICOLL IN THE SEPARATION OF VIABLE ISLETS OF LANGERHANS FROM THE RAT PANCREAS. Nash JR, Horlor M, Bell PR *Transplantation* 22: 411-2, Oct 76 (Eng) DL/77FEB415

FIELD DESORPTION MASS SPECTRUM

FIELD DESORPTION MASS SPECTRUM OF GLUCAGON. Winkler HU, Beuhler RJ, Friedman L *Biomed Mass Spectrom* 3: 201-6, Oct 76 (Eng) DL/77FEB15

FILM

COMPARISON OF NON-SCREEN TECHNIQUES (MEDICAL VS. INDUSTRIAL FILM) FOR FINE-DETAIL SKELETAL RADIOGRAPHY. Genant HK, Doi K, Mall JC *Invest Radiol* 11: 486-500, SEP-OCT 76 (Eng) DL/77FEB151

FILTRATION

WATER FILTRATION OF THE FOREARM IN SHORT- AND LONG-TERM DIABETES MELITUS. Poulsen HL, Nielsen SL *Diabetologia* 12: 437-40, Oct 76 (Eng) DL/77FEB111

FISH, FRESHWATER

EFFECT OF SOMATOTROPIN UPON A FRESHWATER FISH, CHANNA PUNCTATUS (BLOCH). Gill TS *Anat Anz* 140: 199-201, 1976 (Eng) DL/77FEB485

FISTULA

[PANCREATIC SECRETION IN RATS. A COMPARATIVE STUDY OF BASAL AND STIMULATED SECRETIONS IN ACUTE AND CHRONIC PISTULA CONDITIONS (AUTHORS TRANSL)]. Chariot J, Roze C, de La Tour J, Souchard M, Vaillat C, Debray C *Pathol Biol (Paris)* 24: 457-61, Sep 76 (Fre) DL/77FEB336

FLAVONOID

INHIBITION OF LENS ALDOSE REDUCTASE BY FLAVONOIDS—THEIR POSSIBLE ROLE IN THE PREVENTION OF DIABETIC CATARACTS. Varma SD, Kinoshita JH *Biochem Pharmacol* 25: 2505-13, 15 NOV 76 (Eng) DL/77FEB514

FLOW

IMPAIRED GLUCOSE FLOW IN BURNED PATIENTS WITH GRAM-NEGATIVE SEPSIS. Wilmore DW, Mason AD Jr, Pruitt BA Jr *Surg Gynecol Obstet* 143: 720-4, Nov 76 (Eng) DL/77FEB408

FLOW, BLOOD

MYOCARDIAL ION AND LIPID CHANGES DURING ISCHEMIA AND CATECHOLAMINE INDUCED NECROSIS: RELATION TO REGIONAL BLOOD FLOW. Regan TJ, Markov A, Khan MI, Jesrani MU, Oldewurtel HA, Ettinger PO *Recent Adv Stud Cardiac Struct Metab* 1: 656-64, 1972 (Eng) *DL/77FEB649

FLUORESCENCE

STRUCTURAL STUDIES ON DES-PENTAPEPTIDE (B26-30)-INSULIN. IV. A PRELIMINARY INVESTIGATION ON THE HYDROPHOBIC REGION BY EMPLOYING A FLUORESCENCE PROBE, 1-P-TOLUIDINYLNAPHTHALENE-8-SULFONATE. Anonymous *Sci Sin* 19: 486-96, Jul-Aug 76 (Eng) DL/77FEB396

FLUORIDE

EFFECTS OF IODOACETATE AND FLUORIDE ON ISLATE RESPIRATION AND INSULIN BIOSYNTHESIS. Lin BJ, Henderson MJ, Levine BB, Nagy BR, Nagy EM *Horm Metab Res* 8: 353-8, Sep 76 (Eng) DL/77FEB141

FLUTIOREX

STUDIES WITH FLUTIOREX, A NEW ANORECTIC DRUG, ON GLUCOSE UPTAKE INTO HUMAN ISOLATED SKELETAL MUSCLE. Kirby MJ, Carageorgiou-Markomihalakis H, Turner P *Br J Clin Pharmacol* 2: 541-2, Dec 75 (Eng) DL/77FEB6

FLUX

COORDINATION OF CITRIC ACID CYCLE ACTIVITY WITH ELECTRON TRANSPORT

FLUX. Williamson JR, Ford C, Illingworth J, Safer B *Circ Res* 38: i39-51, May 76 (Eng) *DL/77FEB538

FLUX, GLYCOLYTIC

ESTIMATED GLYCOLYTIC FLUX IN INFARCTED HEART. Opie LH, Owen P, Lubbe W *Recent Adv Stud Cardiac Struct Metab* 7: 249-55, 1975 (Eng) *DL/77FEB666

FOOD INTAKE

SUPPRESSION OF FOOD INTAKE IN DIABETIC RATS BY VOLUNTARY CONSUMPTION AND INTRAHYPOTHALAMIC INJECTION OF GLUCOSE. Panksepp J, Meeker R *Physiol Behav* 16: 763-70, Jun 76 (Eng) DL/77FEB366

FOOT, DIABETIC

DIABETIC FOOT CARE EDUCATION IN A PODIATRY CLINIC: A PILOT STUDY. Scarlet JJ, Conner JC, Monasternsky C *J Am Podiatry Assoc* 66: 798-800, Oct 76 (Eng) DL/77FEB173

THE DIABETIC FOOT. Levin ME *J Am Podiatry Assoc* 66: 825-39, Nov 76 (Eng) DL/77FEB174

BONE AND JOINT CHANGES IN THE DIABETIC FOOT. Buchman NH *J Am Podiatry Assoc* 66: 211-26, Apr 76 (Eng) DL/77FEB175

SALVAGE OF THE DIABETIC FOOT BY VASCULAR RECONSTRUCTION. Karmody AM, Jacobs RL *Orthop Clin North Am* 7: 957-77, Oct 76 (Eng) DL/77FEB333

FOREARM

WATER FILTRATION OF THE FOREARM IN SHORT- AND LONG-TERM DIABETES MELITUS. Poulsen HL, Nielsen SL *Diabetologia* 12: 437-40, Oct 76 (Eng) DL/77FEB111

FREE FATTY ACID

PROPRANOLOL EFFECT ON PLASMA GLUCOSE, FREE FATTY ACID, INSULIN, AND GROWTH HORMONE IN GRAVES DISEASE. Ortigosa JL, Mendoza F, Argote RM, Garcia G, Cervantes C, Parra A *Metabolism* 25: 1201-7, Nov 76 (Eng) DL/77FEB260

[MUSCLE METABOLISM OF GLUCOSE, LACTATE, FREE FATTY ACIDS, AND GLYCEROL AT REST AND DURING ELECTRICALLY STIMULATED EXERCISE IN THE PERFUSED RAT HIND LIMB (AUTHORS TRANSL)]. Dieterle C, Gartner R, Dieterle P *Exp Med (Berl)* 168: 23-33, 22 Jul 76 (Ger) DL/77FEB378

[THE BEHAVIOR OF LIPOPROTEINS, CHOLESTEROL, TRIGLYCERIDES, FREE FATTY ACIDS AND FREE GLYCEROL IN SERUM OF RATS WITH EXPERIMENTAL HYPERTHYROIDISM AND HYPOTHYROIDISM] Hubner G, Renner I, Rauer G *Endokrinologie* 67: 60-6, Mar 67 (Ger) *DL/77FEB548

INFLUENCE OF FREE FATTY ACIDS ON MYOCARDIAL MECHANICS AND OXYGEN CONSUMPTION IN RAT PAPILLARY MUSCLES AND PERFUSED HEARTS, UNDER OXYGENATED AND HYPoxic CONDITIONS. Henderson AH, Sonnenblick EH *Recent Adv Stud Cardiac Struct Metab* 1: 147-62, 1975 (Eng) *DL/77FEB636

THE UPTAKE OF FREE FATTY ACID IN THE RAT HEART. Harris P, Achillea M, Gloster *Recent Adv Stud Cardiac Struct Metab* 7: 23-7, 1975 (Eng) *DL/77FEB663

[TRANSPORT OF FREE FATTY ACIDS AND ENERGY METABOLISM DURING HYPOTERMIC AND HYPERCALORIC FORMULA DIETS] Schonborn J, Dadrach E, Rabast U, Kasper

Verh Dtsch Ges Inn Med 81: 1402-5, 1975 (Ger)
*DL/77FEB685

THE EFFECT OF ANTIPOLYTIC AGENTS ON CYCLIC AMP, FREE FATTY ACID AND TOTAL CATECHOLAMINE CONCENTRATIONS IN PLASMA. Strange RC, Rowe MJ, Mjos OD, Oliver MF *Acta Med Scand* 199: 421-4, 1976 (Eng) *DL/77FEB691

FRUCTOSE

[METABOLIC EFFECT OF ADMINISTRATION OF GLUCAGON AND A COMBINATION OF GLUCAGON AND FRUCTOSE TO PATIENTS WITH CIRRHOSIS OF THE LIVER AND TO HEALTHY SUBJECTS (AUTHORS TRANSL)] Brodanova M, Brodan V, Andel M, Kuhn E *Sb Lek* 78: 218-24, Aug 76 (Cze) DL/77FEB390

FUCOSE

[STUDY OF THE FUCOSE-RICH OLIGOSACCHARIDES IN THE URINE OF HEALTHY AND MELITURIC SUBJECTS WITH A, B AND O BLOOD GROUPS] Strecker G, Trentesaux-Chauvet C, Poitau A, Montreuil J *Biochimie* 58: 805-14, 1976 (Fre) DL/77FEB11

FUNCTION TEST

[FUNCTION TEST OF THE HUMAN FETAL PANCREAS (AUTHORS TRANSL)] Nakai T, Yamada R *Jpn J Clin Pathol* 24: 673-7, Aug 76 (Jpn) DL/77FEB221

GABA

SEE GAMMA AMINOBUTYRIC ACID

D-GALACTOSE

INHIBITORY ACTION OF D-GALACTOSE ON PHAGOCYTE METABOLISM AND FUNCTION. Litchfield WJ, Wells WW *Infect Immun* 13: 728-34, Mar 76 (Eng) *DL/77FEB564

GALACTOSYL TRANSFERASE

THE LEVEL AND COMPOSITION OF SERUMUCOID AND NONDIALYSABLE SERUM SUGAR-PEPTIDE FRACTION COMPARED WITH THE ACTIVITY OF GALACTOSYL TRANSFERASE (EC 2.4.1.38) OF LIVER GOLGI MEMBRANES IN INSULIN-TREATED RATS. Guzdek A, Kordowiak A, Sarnecka-Keller M *Clin Chim Acta* 72: 393-9, 1 Nov 76 (Eng) DL/77FEB43

THE KINETIC MECHANISM OF BOVINE MILK GALACTOSYLTRANSFERASE. THE ROLE OF ALPHA-LACTALBUMIN. Bell JE, Beyer TA, Hill RL *J Biol Chem* 251: 3003-13, 25 May 76 (Eng) *DL/77FEB571

GALL BLADDER

[GALL-BLADDER CHANGES IN DIABETICS (AUTHORS TRANSL)] Forgacs S *Radiol Diagn (Berl)* 17: 51-5, 1976 (Ger) DL/77FEB368

GAMMA RAY

[EFFECT OF GAMMA RAYS FROM ⁶⁰CO ON THE IN VITRO INCORPORATION OF PALMITIC ACID IN LIPIDS OF RAT LIVER MICROSOMES] Magdalou J, Dousset N, Douste-Blazy L *Int J Radiat Biol* 29: 27-35, Jan 76 (Fre) *DL/77FEB565

GANGLIOCYTIC PARANGLIOMA

[GANGLIOCYTIC PARANGLIOMA OF THE DUODENUM. ONE CASE WITH ELECTRON MICROSCOPE STUDY (AUTHORS TRANSL)] Kermarec J, Duplay H, Lesbros F *Arch Anat*

Cytol Pathol 24: 261-8, 1976 (Fre)
DL/77FEB492

GANGRENE

[TREATMENT OF MOIST GANGRENE OF THE LOWER LIMBS IN PATIENTS WITH DIABETES MELLITUS] Struchkov VI, Grigorian AV, Oganessian SS *Khirurgia (Mosk)* 63-8, Sep 76 (Rus) DL/77FEB225

[GANGRENE OF THE NASAL CONCHAS AND NASAL SEPTUM, RETROBULBAR ABSCESS AND RHINOGENIC SEPSIS IN A PATIENT WITH DIABETES MELLITUS] Sagalchik IaS *Zh Vyssh Nerv Dejst* 26: 100-1, Jun-Aug 76 (Rus) DL/77FEB442

GASTRIC ALPHA CELL

GASTRIC A-CELL FUNCTION IN NORMAL DOGS. Munoz-Barragan L, Blazquez E, Patton GS, Dobbs RE, Unger RH *Am J Physiol* 231: 1057-61, Oct 76 (Eng) DL/77FEB474

GASTRIC EMPTYING

GASTRIC EMPTYING OF SOLID MEALS IN DIABETICS. Scarpello JH, Barber DC, Hague RV, Cullen DR, Sladen GE *Br Med J* 2: 671-3, 18 Sep 76 (Eng) DL/77FEB22

GASTRIC GLUCAGON

GASTRIC GLUCAGON SECRETION. Blazquez E, Munoz-Barragan L, Patton GS, Dobbs R, Unger RH *Metabolism* 25: 1475-6, Nov 76 (Eng) DL/77FEB303

GASTRIC INHIBITORY POLYPEPTIDE

GASTRIC INHIBITORY POLYPEPTIDE (GIP) IN MATURITY-ONSET DIABETES MELLITUS. Crockett SE, Mazzaferri EL, Cataland S *Diabetes* 25: 931-5, Oct 76 (Eng) DL/77FEB99

INHIBITION OF ACTIONS OF GLUCAGON IN ADIPOCYTES BY GASTRIC INHIBITORY POLYPEPTIDE. Dupre J, Greenidge N, McDonald TJ, Ross SA, Rubinstein D *Metabolism* 25: 1197-9, Nov 76 (Eng) DL/77FEB259

GASTRIC MUCOSA

RAT GASTRIC MUCOSAL OXYGEN TENSION, ULCER INDEX, PLASMA GASTRIN AND GLUCAGON FOLLOWING RESTRAINT STRESS. INFLUENCE OF VAGOTOMY, SPLANCHNICOTOMY AND EXOGENOUS SECRETIN. Schwille PO, Schellerer W, Steiner H, Reitzenstein M *Res Exp Med (Berl)* 167: 149-58, 15 May 76 (Eng) DL/77FEB375

GASTRIC SECRETION

EFFECT OF THE HISTAMINE H2-RECEPTOR ANTAGONIST, CIMETIDINE, ON GASTRIC SECRETION AND SERUM GASTRIN DURING INSULIN INFUSION IN MAN. Carter DC, Forrest JA, Logan RA, Ansell I, Lidgard G, Heading RC, Shearman DJ *Scand J Gastroenterol* 11: 565-70, 1976 (Eng) DL/77FEB393

GASTRIN, PLASMA

RAT GASTRIC MUCOSAL OXYGEN TENSION, ULCER INDEX, PLASMA GASTRIN AND GLUCAGON FOLLOWING RESTRAINT STRESS. INFLUENCE OF VAGOTOMY, SPLANCHNICOTOMY AND EXOGENOUS SECRETIN. Schwille PO, Schellerer W, Steiner H, Reitzenstein M *Res Exp Med (Berl)* 167: 149-58, 15 May 76 (Eng) DL/77FEB375

GASTRIN RELEASE

GLUCAGON AND GASTRIN RELEASE BY THE ISOLATED PERFUSED DOG STOMACH IN RESPONSE TO ARGININE. Lefebvre PJ, Luyckx AS, Brassinne AH, Nizet AH *Metabolism* 25: 1447-9, Nov 76 (Eng) DL/77FEB294

EFFECT OF STREPTOZOCIN ON GASTRIN RELEASE. Stadil F, Stage JG *Scand J Gastroenterol [Suppl]* 11: 67-70, 1976 (Eng) *DL/77FEB680

GASTRIN, SERUM

EFFECT OF THE HISTAMINE H2-RECEPTOR ANTAGONIST, CIMETIDINE, ON GASTRIC SECRETION AND SERUM GASTRIN DURING INSULIN INFUSION IN MAN. Carter DC, Forrest JA, Logan RA, Ansell I, Lidgard G, Heading RC, Shearman DJ *Scand J Gastroenterol* 11: 565-70, 1976 (Eng) DL/77FEB393

GASTRINOMA

HISTOLOGIC CHARACTERISTICS OF INSULINOMAS AND GASTRINOMAS. VALUE OF ARGYRAPHILIA, METACHROMASIA, IMMUNOHISTOLOGY, AND ELECTRON MICROSCOPY FOR THE IDENTIFICATION OF GASTROINTESTINAL AND PANCREATIC ENDOCRINE CELLS AND THEIR TUMORS. Woodtli W, Hedinger C *Virchows Arch [Pathol Anat]* 371: 331-50, 7 Oct 76 (Eng) DL/77FEB425

GASTROINTESTINAL

HISTOLOGIC CHARACTERISTICS OF INSULINOMAS AND GASTRINOMAS. VALUE OF ARGYRAPHILIA, METACHROMASIA, IMMUNOHISTOLOGY, AND ELECTRON MICROSCOPY FOR THE IDENTIFICATION OF GASTROINTESTINAL AND PANCREATIC ENDOCRINE CELLS AND THEIR TUMORS. Woodtli W, Hedinger C *Virchows Arch [Pathol Anat]* 371: 331-50, 7 Oct 76 (Eng) DL/77FEB425

[DIAGNOSTIC METHODS IN THE ASSESSMENT OF GASTROINTESTINAL FUNCTION (AUTHORS TRANSL)] Pointer H *Wien Klin Wochenschr* 88: 609-18, 15 Oct 76 (Ger) [48] DL/77FEB433

GASTROINTESTINAL TRACT

[THE ENDOCRINE CELLS OF THE GASTROINTESTINAL EPITHELIUM AND THE METABOLISM OF BIOGENIC AMINES IN THE GASTROINTESTINAL TRACT (AUTHORS TRANSL)] Grube D *Prog Histochem Cytochem* 8: 1-128, 1976 (Ger) [968] DL/77FEB369

GENE

EVIDENCE FOR A DIRECT EFFECT ON FATTY ACID SYNTHESIS IN RELATION TO GENE CONTROL OF MEMBRANE PHOSPHOLIPID SYNTHESIS. Nunn WD, Cronan JE Jr *J Mol Biol* 102: 167-72, 25 Mar 76 (Eng) *DL/77FEB602

GENETIC

ELEVATED KIDNEY GLUCOSYLTRANSFERASE ACTIVITY IN GENETIC PREDIABETIC MICE. Reddi AS, Oppermann W, Reddy MP, Velasco CA, Camerini-Davalos RA *Experientia* 32: 1237-8, 15 Oct 76 (Eng) DL/77FEB75

[GENETICS OF DIABETES MELLITUS (AUTHORS TRANSL)] Feingold J *Diabetes Metab* 1: 123-9, Jun 76 (Fre) [34] DL/77FEB97

GENETIC COUNSELING

GENETIC ORIGIN OF DIABETES [LETTER]. Rosenthal MB, Goldfine ID, Siperstein MD *Lancet* 2: 908-9, 23 Oct 76 (Eng) DL/77FEB247

GENETICS OF MURINE LIVER AND KIDNEY ARYL SULFATASE B. Daniel WL *Genetics* 82: 477-91, 25 Mar 76 (Eng) *DL/77FEB559

GENETIC ANALYSIS OF PETITE MUTANTS OF SACCHAROMYCES CEREVISIAE: TRANSMISSIONAL TYPES. Perlman PS *Genetics* 82: 645-63, 31 Apr 76 (Eng) *DL/77FEB560

GENETIC COUNSELING

[GENETIC COUNSELING IN PREVENTIVE MEDICINE] Schnedl W *Wien Med Wochenschr* 126: 565-8, 1 Oct 76 (Ger) DL/77FEB434

GESTATION

INFLUENCE OF DIETARY ENERGY DURING GESTATION ON LAMBING PERFORMANCE, AND GLUCOSE METABOLISM IN FINN-CROSS EWES. Prior RL, Christenson RK *J Anim Sci* 43: 1114-24, Nov 76 (Eng) DL/77FEB155

MATERNAL PROTEIN MALNUTRITION DURING GESTATION ALONE AND ITS EFFECTS ON PLASMA INSULIN LEVELS OF THE PREGNANT PIG, ITS FETUSES AND THE DEVELOPING OFFSPRING. Atinmo T, Baldijao C, Pond WG, Barnes RH *J Nutr* 106: 1647-53, Nov 76 (Eng) DL/77FEB203

GESTATIONAL DIABETIC

PLASMA CONCENTRATIONS OF UNCONJUGATED ESTRONE, ESTRADIOL-17BETA AND ESTRIOL, AND HCS THROUGHOUT PREGNANCY IN DIABETIC AND GESTATIONAL DIABETICS. De Hertogh R, Thomas K, Hoet JJ, Vanderheyden I *Diabetologia* 12: 455-61, Oct 76 (Eng) DL/77FEB114

INSULIN TREATMENT OF GESTATIONAL DIABETICS. Drazancic A, Kuvacic I *Acta Med Jugosl* 30: 341-53, 1976 (Eng) DL/77FEB459

GILBERTS SYNDROME

ALTERATION OF DRUG METABOLISM IN GILBERTS SYNDROME. Carulli N, Ponz de Leon M, Mauro E, Manenti F, Ferrari A *Gut* 17: 581-7, Aug 76 (Eng) DL/77FEB132

GLAND, MAMMARY

EFFECTS OF HORMONES ON PROTEIN AND AMINO ACID METABOLISM IN MAMMARY-GLAND EXPLANTS OF MICE. Anderson LD, Rillema JA *Biochem J* 158: 355-9, 15 Aug 76 (Eng) DL/77FEB506

GLAND, PITUITARY

[PATHOGENESIS OF SPONTANEOUS DIABETES MELLITUS IN THE CAT. II. ACIDOPHILIC ADENOMA OF THE PITUITARY GLAND AND DIABETES MELLITUS IN 2 CASES] Gemhardt C, Loppnow H *Berl Munch Tierarztl Wochenschr* 89: 336-40, 1 Sep 76 (Ger) DL/77FEB497

GLAND, SALIVARY

SALIVARY GLAND GLUCAGON IN MAN AND ANIMALS. Lawrence AM, Tan S, Hoyvat S, Kirshtein L, Mitton J *Metabolism* 25: 1405-8, Nov 76 (Eng) DL/77FEB284

DISCUSSION PAPER ON CHOLINERGIC REGULATION OF GLYCOGENOLYSIS AND PROTEIN SECRETION IN RAT SALIVARY GLANDS. PP. 295-6. Rossignol B, Herman G, Keryer G, Chambaut-Guerin AM, Ovtchacht L, Busson S, Brown EM, Fedak SA, Woodard CJ,

Aurbach GD *In: Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract.* Baltimore, Univ Park Press, 1976. W1 102 S859 1975. (Eng) *DL/77FEB585

GLIBENCLAMIDE

[CLINICAL EXPERIENCE WITH THE NEW HUNGARIAN GLIBENCLAMIDE PRODUCT (GILEMAL)] Bela P, Miklos G *Orv Hetil* 117: 2792-4, 14 Nov 76 (Hun) DL/77FEB335

INHIBITION OF THE GLUCOSE INDUCED INSULIN RELEASE BY SOMATOSTATIN IN THE ISOLATED PERFUSED RAT PANCREAS. ACTION OF CYCLIC AMP, GLUCAGON AND GLIBENCLAMIDE. Osorio J, Campillo JE, de los Arcos JG, Pages I, Rodriguez E, Marasco M, Melani F *Rev Esp Fisiol* 32: 211-6, Sep 76 (Eng) DL/77FEB372

[INTERACTIONS BETWEEN DICLOFENAC AND GLIBENCLAMIDE] Chlud K Z *Rheumatol* 35: 377-82, Sep-Oct 76 (Ger) DL/77FEB444

GLIPENTIDE

[PHARMACOKINETIC OF GLIPENTIDE (UR-661) BY IV. ADMINISTRATION ON HEALTHY AND DIABETIC VOLUNTEERS (AUTHORS TRANSL.)] Rimbau Barreras V, Uriach Marsal J, Pou Torello JM *Arch Pharmacol Toxicol* 2: 115-22, Aug 76 (Spa) DL/77FEB491

GLIPIZIDE

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL.)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77FEB83

[EVALUATION OF GLIPIZIDE] Nowotna-Walcowa R, Szajewski JM, Walc J *Wiad Lek* 29: 1607-10, 15 Sep 76 (Pol) DL/77FEB431

GLOMERULAR LESION

ISLET TRANSPLANTATION IN EXPERIMENTAL DIABETES OF THE RAT. V. REGRESSION OF GLOMERULAR LESIONS IN DIABETIC RATS AFTER INTRAPORTAL TRANSPLANTATION OF ISOGENIC ISLETS. PRELIMINARY RESULTS. Federlin K, Bretzel RG, Schmidtchen U *Horm Metab Res* 8: 404-6, Sep 76 (Eng) DL/77FEB148

GLOMERULOSCLEROSIS, INTERCAPILLARY

[INTERCAPILLARY GLOMERULOSCLEROSIS] Jacobs C, Legrain M *Rev Prat* 26: 3133-44, 11 Oct 76 (Fre) DL/77FEB385

GLOMERULUS, CEREBELLAR

METABOLIC PROPERTIES OF A PURIFIED PREPARATION OF LARGE FRAGMENTS OF THE CEREBELLAR GLOMERULI: GLUCOSE METABOLISM AND AMINO ACID UPTAKE. Wilson JE, Wilkin GP, Balazs R *J Neurochem* 26: 957-65, May 76 (Eng) *DL/77FEB600

GLOMERULUS PARTICLE

BIOCHEMICAL DISSECTION OF THE CEREBELLUM—FUNCTIONAL PROPERTIES OF THE GLOMERULUS PARTICLES. PP. 427-36. Wilson JE, Wilkin GP, Balazs R *In: Berl S, et al., ed. Metabolic compartmentation and neurotransmission.* New York, Plenum Press, 1975. W3 N1355 1974m. (Eng) *DL/77FEB516

GLUCAGON

EFFECTS OF IODINATION OF TYROSYL RESIDUES ON THE BINDING AND ACTION OF GLUCAGON AT ITS RECEPTOR. Lin MC, Nicosia S, Rodbell M *Biochemistry* 15: 4537-40, 5 Oct 76 (Eng) DL/77FEB9

STUDIES ON EXPERIMENTAL HYPOTROPHY IN THE RAT. III. PLASMA INSULIN AND GLUCAGON. Girard JR, Chanez C, Kervran A, Tordet-Caridroit C, Assan R *Biol Neonate* 29: 262-6, 1976 (Eng) DL/77FEB13

FIELD DESORPTION MASS SPECTRUM OF GLUCAGON. Winkler HU, Beuhler RJ, Friedman L *Biomed Mass Spectrom* 3: 201-6, Oct 76 (Eng) DL/77FEB15

THE INFLUENCE OF GLUCAGON UPON THE RESPONSES OF THE HEPATIC ARTERIAL VASCULATURE TO VASODILATOR AGENTS [PROCEEDINGS]. Richardson PD, Withington PG *Br J Pharmacol* 57: 473p, Jul 76 (Eng) DL/77FEB17

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerasi E *Diabete Metab* 1: 51-6, Mar 75 (Eng) DL/77FEB88

MODULATION OF FATTY ACID METABOLISM BY GLUCAGON IN MAN. IV. EFFECTS OF A PHYSIOLOGIC HORMONE INFUSION IN NORMAL MAN. Schade DS, Eaton RP *Diabetes* 25: 978-83, Oct 76 (Eng) DL/77FEB107

POSTMATURITY IN THE RAT: IMPAIRMENT OF INSULIN, GLUCAGON, AND GLYCOGEN STORES. Portha B, Rosselin G, Picon L *Diabetologia* 12: 429-36, Oct 76 (Eng) DL/77FEB110

SOMATOSTATIN, A HORMONE OF THE ALPHA I-CELLS OF THE PANCREATIC ISLETS AND ITS INFLUENCE ON THE SECRETION OF INSULIN AND GLUCAGON. PP. 216-21. Efendic S, Hokfelt T, Luft R *In: Pecile A, Muller EE, ed. Growth hormone and related peptides.* Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB190

INSULIN, GLUCAGON, AMINOACID IMBALANCE, AND HEPATIC ENCEPHALOPATHY. Soeters PB, Fischer JE *Lancet* 2: 880-2, 23 Oct 76 (Eng) DL/77FEB245

INHIBITION OF ACTIONS OF GLUCAGON IN ADIPOCYTES BY GASTRIC INHIBITORY POLYPEPTIDE. Dupre J, Greenidge N, McDonald TJ, Ross SA, Rubinstein D *Metabolism* 25: 1197-9, Nov 76 (Eng) DL/77FEB259

SPECIES VARIATIONS IN THE PRIMARY STRUCTURE OF GLUCAGON. Sundby F *Metabolism* 25: 1319-21, Nov 76 (Eng) DL/77FEB265

THE RELATION OF STRUCTURE TO STORAGE AND RECEPTOR BINDING OF GLUCAGON. Blundell TL, Dockerill S, Sasaki K, Tickle IJ, Wood SP *Metabolism* 25: 1331-6, Nov 76 (Eng) DL/77FEB268

BIOSYNTHESIS OF GLUCAGON. Noe BD *Metabolism* 25: 1339-41, Nov 76 (Eng) DL/77FEB269

REGULATION OF HEPATIC ADENYLATE CYCLASE BY GLUCAGON, GTP, DIVALENT CATIONS, AND ADENOSINE. Rodbell M, London C *Metabolism* 25: 1347-9, Nov 76 (Eng) DL/77FEB271

STUDIES ON THE ROLE OF CAMP-DEPENDENT PROTEIN KINASE IN THE ACTIONS OF GLUCAGON AND CATECHOLAMINES ON LIVER GLYCOGEN METABOLISM. Cherrington AD, Exton JH *Metabolism* 25: 1351-4, Nov 76 (Eng) DL/77FEB272

GLUCAGON RELEASE

AN IMPORTANT ROLE FOR GLUCAGON IN THE REGULATION OF GLUCOSE PRODUCTION IN VIVO. Liljenquist JE, Chiasson JL, Cherrington AD, Keller U, Jennings AS, Bomboy JD, Lacy WW *Metabolism* 25: 1371-3, Nov 76 (Eng) DL/77FEB276

THE ROLE OF GLUCAGON-INSULIN INTERACTIONS IN CONTROL OF GLUCOSE TURNOVER AND ITS SIGNIFICANCE IN DIABETES. Vranic M, Ross G, Doi K, Lickley L *Metabolism* 25: 1375-80, Nov 76 (Eng) DL/77FEB277

ROLE OF GLUCAGON IN PERINATAL GLUCOSE HOMEOSTASIS. Sperling MA, Grajwer LA, Leake R, Fisher DA *Metabolism* 25: 1385-6, Nov 76 (Eng) DL/77FEB279

GLUCAGON AND KETOGENESIS. McGarry JD, Robles-Valdes C, Foster DW *Metabolism* 25: 1387-9, Nov 76 (Eng) DL/77FEB280

SALIVARY GLAND GLUCAGON IN MAN AND ANIMALS. Lawrence AM, Tan S, Hojvat S, Kirsteins L, Mitton J *Metabolism* 25: 1405-8, Nov 76 (Eng) DL/77FEB284

DOMINANT INHERITANCE OF LARGE MOLECULAR WEIGHT SPECIES OF GLUCAGON. Ensink JW, Palmer JP *Metabolism* 25: 1409-11, Nov 76 (Eng) DL/77FEB285

GLUCAGON AND LIPOPROTEINS. Eaton RP *Metabolism* 25: 1415-7, Nov 76 (Eng) [9] DL/77FEB286

INSULIN, GLUCAGON, LIVER REGENERATION, AND DNA SYNTHESIS. Bucher NL, Weir GC *Metabolism* 25: 1423-5, Nov 76 (Eng) DL/77FEB288

INSULIN AND GLUCAGON AS MODIFIERS OF DNA SYNTHESIS IN THE REGENERATING RAT LIVER. Price JB Jr *Metabolism* 25: 1427-8, Nov 76 (Eng) DL/77FEB289

INSULIN, GLUCAGON, AND THE CONTROL OF HEPATIC STRUCTURE, FUNCTION, AND CAPACITY FOR REGENERATION. Starzl TE, Porter KA, Putnam CW *Metabolism* 25: 1429-34, Nov 76 (Eng) DL/77FEB290

INTRAISET NEGATIVE INSULIN-GLUCAGON FEEDBACK. Samols E, Harrison J *Metabolism* 25: 1443-7, Nov 76 (Eng) DL/77FEB293

GLUCAGON AND GASTRIN RELEASE BY THE ISOLATED PERFUSED DOG STOMACH IN RESPONSE TO ARGININE. Lefebvre PJ, Luyckx AS, Brassinne AH, Nizet AH *Metabolism* 25: 1447-9, Nov 76 (Eng) DL/77FEB294

NEUROTENSIN AND SUBSTANCE-P: EFFECTS ON PLASMA INSULIN AND GLUCAGON LEVELS. Brown M, Villarreal J, Vale W *Metabolism* 25: 1459-61, Nov 76 (Eng) DL/77FEB298

EXTRAPANCREATIC GLUCAGON IN THE DOG. Vranic M, Engerman R, Doi K, Morita S, Yip CC *Metabolism* 25: 1469-73, Nov 76 (Eng) DL/77FEB302

GASTRIC GLUCAGON SECRETION. Blazquez E, Munoz-Barragan L, Patton GS, Dobbs R, Unger RH *Metabolism* 25: 1475-6, Nov 76 (Eng) DL/77FEB303

STIMULATION OF PANCREATIC IMMUNOREACTIVE SOMATOSTATIN (IRS) RELEASE BY GLUCAGON [PROCEEDINGS]. Patton GS, Dobbs R, Orci L, Vale W, Unger RH *Metabolism* 25: 1499, Nov 76 (Eng) DL/77FEB308

THE EFFECTS OF ACUTE AND CHRONIC INSULIN ADMINISTRATION ON PLASMA IRL LEVELS IN HUMAN DIABETES. Raskin P, Aydin I, Unger RH *Metabolism* 25: 1531-3, Nov 76 (Eng) DL/77FEB317

PHYSIOLOGY AND PATHOPHYSIOLOGY OF GLUCAGON. Unger RH, Orci L *Physiol Rev* 56: 778-826, Oct 76 (Eng) [164] DL/77FEB365

INHIBITION OF THE GLUCOSE INDUCED INSULIN RELEASE BY SOMATOSTATIN IN THE ISOLATED PERFUSED RAT PANCREAS. ACTION OF CYCLIC AMP, GLUCAGON AND GLIBENCLAMIDE. Osorio J, Campillo JE, de los Arcos JG, Pages I, Rodriguez E, Marasco M, Melani F *Rev Esp Fisiol* 32: 211-6, Sep 76 (Eng) DL/77FEB372

RAT GASTRIC MUCOSAL OXYGEN TENSION, ULCER INDEX, PLASMA GASTRIN AND GLUCAGON FOLLOWING RESTRAINT STRESS. INFLUENCE OF VAGOTOMY, SPLANCHNICOTOMY AND EXOGENOUS SECRETIN. Schwiller PO, Schellerer W, Steiner H, Reitzenstein M *Res Exp Med (Berl)* 167: 149-58, 15 May 76 (Eng) DL/77FEB375

[METABOLIC EFFECT OF ADMINISTRATION OF GLUCAGON AND A COMBINATION OF GLUCAGON AND FRUCTOSE TO PATIENTS WITH CIRRHOSIS OF THE LIVER AND TO HEALTHY SUBJECTS (AUTHORS TRANSL.)] Brodanova M, Brodan V, Andel M, Kuhn E *Sh Lek* 78: 218-24, Aug 76 (Cze) DL/77FEB390

[MODIFICATION OF INSULIN-SECRETION, INDUCED BY GLUCOSE, OF THE ISOLATION-PERFUSED RAT PANCREAS USING TOLBUTAMIDE, GLUCOSAMINE, DIAZOXIDE, GLUCAGON AND ENDOGENOUS INSULIN] Bierwolf B, Blech W *Acta Biol Med Ger* 35: 583-95, 1976 (Ger) DL/77FEB450

FUNCTIONAL DIFFERENTIATION OF THE CHICK ENDOCRINE PANCREAS. II. THE ALPHA CELLS AND GLUCAGON. Benzo CA, Stearns SB *Am J Anat* 147: 273-9, Nov 76 (Eng) DL/77FEB465

STUDIES WITH THE AUTOTRANSPLANTED OVINE PANCREAS: GLUCAGON AND INSULIN SECRETION. Arcus AC, Ellis MJ, Kirk RD, Beaven DW, Donald RA, Hart DS, Holland GW, Redekopp C *Aust J Biol Sci* 29: 223-36, Jul 76 (Eng) DL/77FEB496

GLUCAGON STIMULATES THE A SYSTEM FOR NEUTRAL AMINO ACID TRANSPORT IN ISOLATED HEPATOCYTES OF ADULT RAT. Le Cam A, Freychet P *Biochem Biophys Res Commun* 72: 893-901, 4 Oct 76 (Eng) DL/77FEB510

GLUCAGON ADMINISTRATION

THE EFFECTS OF GLUCAGON ADMINISTRATION TO NONDIABETICS AND DIABETICS. Unger RH, Aydin I, Nakabayashi H, Srikant CB, Raskin P *Metabolism* 25: 1523-6, Nov 76 (Eng) DL/77FEB315

[POLYCARDIOGRAPHIC EVALUATION OF LEFT VENTRICULAR CONTRACTION FOLLOWING GLUCAGON ADMINISTRATION TO PATIENTS WITH CHRONIC CIRCULATORY FAILURE] Szczeklik J, Dubiel J, Pyzik Z *Pol Tyg Lek* 31: 1709-12, 4 Oct 76 (Pol) DL/77FEB347

EFFECT OF CHRONIC GLUCAGON-ADMINISTRATION ON THE DIGESTIVE AND ABSORPTIVE FUNCTION OF RAT SMALL INTESTINE IN VIVO. Caspary WF, Lucke H *Res Exp Med (Berl)* 167: 1-13, 27 Feb 76 (Eng) DL/77FEB373

GLUCAGON ANALOGUE

STUDIES WITH GLUCAGON ANALOGS. Bromer WW *Metabolism* 25: 1515-6, Nov 76 (Eng) DL/77FEB263

BIOLOGIC ACTIVITY AND CONFORMATIONAL PROPERTIES OF GLUCAGON AND GLUCAGON ANALOGS. Epan RM, Cote TE, Hoa DH, Rosselin G, Schreier S *Metabolism* 25: 1517-8, Nov 76 (Eng) DL/77FEB264

GLUCAGON, EXTRAPANCREATIC

EXTRAPANCREATIC GLUCAGON IN THE DOG. Vranic M, Engerman R, Doi K, Morita S, Yip CC *Metabolism* 25: 1469-73, Nov 76 (Eng) DL/77FEB302

GLUCAGON, IMMUNOREACTIVE

HETEROGENEITY OF PLASMA IMMUNOREACTIVE GLUCAGON. Valverde I, Villanueva ML *Metabolism* 25: 1393-5, Nov 76 (Eng) DL/77FEB281

IMMUNOREACTIVE GLUCAGON RESPONSES TO ARGININE IN THREE PANCREATCTOMIZED HUMANS. Palmer JP, Werner PL, Benson JW, Ensink JW *Metabolism* 25: 1483-5, Nov 76 (Eng) DL/77FEB305

GLUCAGON LIKE IMMUNOREACTIVITY

PURIFICATION AND CHARACTERIZATION OF A PROTEIN FROM PORCINE GUT WITH GLUCAGON-LIKE IMMUNOREACTIVITY. Sundby F, Jacobsen H, Moody AJ *Horm Metab Res* 8: 366-71, Sep 76 (Eng) DL/77FEB143

GLUCAGON, PANCREATIC

THE CONTRIBUTION OF THE PANCREAS AND THE INTESTINE TO THE REGULATION OF LIPOLYSIS IN BIRDS. 2. IMPAIRED LIPOLYTIC ACTIVITY OF PANCREATIC GLUCAGON IN THE ABSENCE OF EITHER THE PANCREAS OR THE INTESTINE IN THE CHICKEN. Krug E, Gross R, Mialhe P *Horm Metab Res* 8: 345-50, Sep 76 (Eng) DL/77FEB139

SEPARATE AUTOANTIBODIES TO HUMAN PANCREATIC GLUCAGON AND SOMATOSTATIN CELLS. Bottazzo GF, Lendrum R *Lancet* 2: 873-6, 23 Oct 76 (Eng) DL/77FEB244

GLUCAGON, PLASMA

EFFECTS OF ACUTE INSULIN WITHDRAWAL AND ADMINISTRATION ON PLASMA GLUCAGON RESPONSES TO INTRAVENOUS ARGININE IN INSULIN-DEPENDENT DIABETIC SUBJECTS. Gerich JE, Lorenzi M, Tsalkian E, Bohannon NV, Schneider V, Karam JH, Forsham PH *Diabetes* 25: 955-60, Oct 76 (Eng) DL/77FEB103

HETEROGENEITY OF PLASMA GLUCAGON IN MAN. Jaspas JB, Kuku SF, Locker JD, Huen A, Emmanouel DS, Katz AI, Rubenstein AH *Metabolism* 25: 1397-401, Nov 76 (Eng) DL/77FEB282

PLASMA GLUCAGON IN DIABETES RESULTING FROM TOTAL PANCREATECTOMY [PROCEEDINGS]. Bloom SR, Barnes AJ, Bryant MG, Alberti KG *Metabolism* 25: 1481-2, Nov 76 (Eng) DL/77FEB304

GLUCAGON RELEASE

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL.)] Leclercq-Meyer V, Malaisse WJ *Diabete Metab* 1: 119-22, Jun 75 (Fre) DL/77FEB93

THE ROLE OF CALCIUM IN GLUCAGON RELEASE, INTERACTIONS BETWEEN GLUCOSE AND CALCIUM. Leclercq-Meyer V, Marchand J, Malaisse WJ *Diabetologia* 12: 531-8, Oct 76 (Eng) DL/77FEB124

EFFECTS OF NEUROTENSIN AND SUBSTANCE P ON INSULIN AND GLUCAGON RELEASE

GLUCAGON SECRETION

BY THE PERFUSED DOG PANCREAS [PROCEEDINGS]. Patton G, Brown M, Dobbs R, Vale W, Unger RH *Metabolism* 25: 1465, Nov 76 (Eng) DL/77FEB300

GLUCAGON SECRETION

INFLUENCE OF METFORMIN ON ARGININE-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ *Diabete Metab* 1: 23-8, Mar 75 (Eng) DL/77FEB84

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteceuvre M, Buneaux JJ *Diabete Metab* 1: 101-11, Jun 75 (Eng) DL/77FEB91

CONTROL OF GLUCAGON SECRETION BY NUTRIENTS IN VITRO. Matschinsky FM, Pagliara AS *Metabolism* 25: 1435-6, Nov 76 (Eng) DL/77FEB291

CENTRAL NERVOUS SYSTEM-MEDIATED STIMULATION OF GLUCAGON SECRETION IN THE DOG FOLLOWING 2-DEOXYGLUCOSE. Frohman LA, Nagai K *Metabolism* 25: 1449-52, Nov 76 (Eng) DL/77FEB295

REGULATION OF GLUCAGON SECRETION OF THE DIABETIC PANCREAS IN VITRO [PROCEEDINGS]. Matschinsky FM, Pagliara AS *Metabolism* 25: 1517, Nov 76 (Eng) DL/77FEB313

GLUCAGON SECRETION FROM THE PERFUSED RAT PANCREAS FOLLOWING ACUTE AND CHRONIC STREPTOZOTOCIN. Weir GC, Atkins RF, Martin DB *Metabolism* 25: 1519-21, Nov 76 (Eng) DL/77FEB314

GLUCAGON, SEMISYNTHETIC

SEMISYNTHETIC GLUCAGON DERIVATIVES FOR STRUCTURE-FUNCTION STUDIES. Hruby VJ, Wright DE, Lin MC, Rodbell M *Metabolism* 25: 1323-5, Nov 76 (Eng) DL/77FEB266

GLUCAGON SUPPRESSION

REMARKABLE POTENCY OF SOMATOSTATIN AS A GLUCAGON SUPPRESSANT. Samols E, Harrison J *Metabolism* 25: 1495-7, Nov 76 (Eng) DL/77FEB307

GLUCONEOGENESIS

POSSIBLE ROLE OF PYRUVATE KINASE IN THE HORMONAL CONTROL OF DIHYDROXYACETONE GLUCONEOGENESIS IN ISOLATED HEPATOCYTES. Pilks SJ, Claus TH, Riou JP, Park CR *Metabolism* 25: 1355-60, Nov 76 (Eng) DL/77FEB273

MECHANISMS OF HORMONAL CONTROL OF GLUCONEOGENESIS. Haynes RC Jr *Metabolism* 25: 1361-3, Nov 76 (Eng) DL/77FEB274

GLUCOPENIA

DRUG MODIFICATION OF HYPOTHERMIA INDUCED BY CNS GLUCOPENIA IN THE MOUSE. Mager M, Robinson S, Freinkel N *Biochem J* 157: 559-64, 1 Sep 76 (Eng) DL/77FEB499

GLUCORECEPTOR

KINETICS OF INSULIN SECRETION IN CHRONIC PANCREATITIS AND MILD MATURITY ONSET DIABETES. (EVIDENCE FOR GUT HORMONE ACTION BEYOND GLUCORECEPTOR AND CYCLIC ADENOSINE MONOPHOSPHATE MEDIATED INSULIN RELEASE). Botha JL, Vinik AI, Blake KC, Jackson WP *Eur J Clin Invest* 6: 365-72, 10 Sep 76 (Eng) DL/77FEB72

GLUCOSAMINE

[MODIFICATION OF INSULIN-SECRETION, INDUCED BY GLUCOSE, OF THE ISOLATION-PERFUSED RAT PANCREAS USING TOLBUTAMIDE, GLUCOSAMINE, DIAZOXIDE, GLUCAGON AND ENDOGENOUS INSULIN] Bierwolf B, Blech W *Acta Biol Med Ger* 35: 583-95, 1976 (Ger) DL/77FEB450

GLUCOSE

LACK OF A SIGNIFICANT PROTECTIVE EFFECT OF AUGMENTED CIRCULATING GLUCOSE ON THE ISCHEMIC MYOCARDIUM. BJ Spath JA, Ogletree ML, Lefer AM *Can J Physiol Pharmacol* 54: 423-9, Aug 76 (Eng) DL/77FEB36

ENHANCEMENT BY D2O OF GLUCOSE-INDUCED CYCLIC AMP ACCUMULATION IN RAT ISLETS OF LANGERHANS. Grill V, Cerasi E *FEBS Lett* 68: 165-9, 1 Oct 76 (Eng) DL/77FEB78

SOMATOSTATIN AND INSULIN RELEASE FROM ISOLATED RAT PANCREATIC ISLETS STIMULATED BY GLUCOSE. Schauder P, McIntosh C, Arends J, Arnold R, Frerichs H, Creutzfeldt W *FEBS Lett* 68: 225-7, 1 Oct 76 (Eng) DL/77FEB79

[PROPORTION OF LOW INSULIN RESPONDERS TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL)] Vague P, Ramahandridona G, Vague J *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77FEB87

FEED-BACK INHIBITION OF INSULIN SECRETION IN SUBJECTS WITH HIGH AND LOW INSULIN RESPONSE TO GLUCOSE. Cerasi E *Diabete Metab* 1: 73-6, Jun 75 (Eng) DL/77FEB94

THE ROLE OF CALCIUM IN GLUCAGON RELEASE, INTERACTIONS BETWEEN GLUCOSE AND CALCIUM. Leclercq-Meyer V, Marchand J, Malaisse WJ *Diabetologia* 12: 531-8, Oct 76 (Eng) DL/77FEB124

TIME COURSE OF GLUCOSE-INDUCED INCREASE IN PLASMA INSULIN IN THE RAT FOETUS IN UTERO. Dervran A, Girard JR *J Endocrinol* 70: 519-20, Sep 76 (Eng) DL/77FEB199

SUPPRESSION OF FOOD INTAKE IN DIABETIC RATS BY VOLUNTARY CONSUMPTION AND INTRAHYPOTHALAMIC INJECTION OF GLUCOSE. Panksepp J, Meeker R *Physiol Behav* 16: 763-70, Jun 76 (Eng) DL/77FEB366

INHIBITION OF THE GLUCOSE INDUCED INSULIN RELEASE BY SOMATOSTATIN IN THE ISOLATED PERFUSED RAT PANCREAS. ACTION OF CYCLIC AMP, GLUCAGON AND GLIBENCLAMIDE. Osorio J, Campillo JE, de los Arcos JG, Pages I, Rodriguez E, Marasco M, Melani F *Rev Esp Fisiol* 32: 211-6, Sep 76 (Eng) DL/77FEB372

[MUSCLE METABOLISM OF GLUCOSE, LACTATE, FREE FATTY ACIDS, AND GLYCEROL AT REST AND DURING ELECTRICALLY STIMULATED EXERCISE IN THE PERFUSED RAT HIND LIMB (AUTHORS TRANSL)] Dieterle C, Gartner R, Dieterle P *Res Exp Med (Berl)* 168: 23-33, 22 Jul 76 (Ger) DL/77FEB378

[GLUCOSE-ALANINE CYCLE] Labadie P *Rev Prat* 26: 3023-30, 1 Oct 76 (Fre) DL/77FEB379

IMPAIRED GLUCOSE FLOW IN BURNED PATIENTS WITH GRAM-NEGATIVE SEPSIS. Wilmore DW, Mason AD Jr, Pruitt BA Jr *Surg Gynecol Obstet* 143: 720-4, Nov 76 (Eng) DL/77FEB408

[COMPARATIVE STUDIES ON THE ORAL GLUCOSE TOLERANCE USING 50 AND 100G OF GLUCOSE WITH SPECIAL REFERENCE

TO VARIOUS LIPID-METABOLISM PARAMETERS] Meinel H, Wolff E *Z Aerzt Fortbild (Jena)* 70: 943-6, 1 Sep 76 (Ger) DL/77FEB437

[BEHAVIOUR OF SERUM CONCENTRATIONS OF GLUCOSE, IMMUNOREACTIVE INSULIN AND POTASSIUM IONS IN NEWBORNS AFTER LONG TERM OR CRASH TREATMENTS WITH PARTUSISTEN OR PARTUSISTEN IN COMBINATION WITH ISOPTIN (AUTHORS TRANSL)] Weidinger H, Mohr D, Haller K, Hiltmann WD, Vogel M *Z Geburtshilfe Perinatol* 180: 258-65, Aug 76 (Ger) DL/77FEB439

[MODIFICATION OF INSULIN-SECRETION, INDUCED BY GLUCOSE, OF THE ISOLATION-PERFUSED RAT PANCREAS USING TOLBUTAMIDE, GLUCOSAMINE, DIAZOXIDE, GLUCAGON AND ENDOGENOUS INSULIN] Bierwolf B, Blech W *Acta Biol Med Ger* 35: 583-95, 1976 (Ger) DL/77FEB450

THE EFFECT OF GLUCOSE, INSULIN AND ADRENALINE ON GLYCEROL METABOLISM IN VITRO IN RAT ADIPOSE TISSUE. Dominguez MC, Herrera E *Biochem J* 158: 183-90, 15 Aug 76 (Eng) DL/77FEB503

EFFECT OF ETHYL ACETATE ON THE TRANSPORT OF SODIUM AND GLUCOSE IN THE HAMSTER SMALL INTESTINE IN VITRO. Esposito G, Faelli A, Capraro V *Biochim Biophys Acta* 426: 489-98, 19 Mar 76 (Eng) *DL/77FEB520

ACTIVITY-RELATED INCREASES OF GLUCOSE UTILIZATION ASSOCIATED WITH REDUCED INCORPORATION OF GLUCOSE INTO ITS DERIVATIVES. Sharp FR *Brain Res* 107: 663-6, 14 May 76 (Eng) *DL/77FEB527

THE EFFECT OF GLUCOSE AND MANGANESE ON ADENOSINE-3,5-MONOPHOSPHATE LEVELS DURING GROWTH AND DIFFERENTIATION OF ASPERGILLUS NIDULANS. Zonneveld BJ *Arch Microbiol* 108: 41-4, 3 May 76 (Eng) *DL/77FEB708

THE INCORPORATION OF RADIOACTIVE FATTY ACIDS AND OF RADIOACTIVE DERIVATIVES OF GLUCOSE INTO THE PHOSPHOLIPIDS OF SUBSYNAPTOSOMAL FRACTIONS OF CEREBRAL CORTEX. Baker R, Dowdall MJ, Whittaker VP *Biochem J* 154: 65-75, 15 Jan 76 (Eng) *DL/77FEB715

D-GLUCOSE

STUDIES ON INSULIN ACTION. V. STRUCTURAL REQUIREMENTS OF PRIMERS FOR SUBSEQUENT ACCUMULATION OF D-GLUCOSE AT 0 DEGREES C IN INSULINIZED FROG MUSCLES. Ling GN, Will S *Physiol Chem Phys* 8: 115-24, 1976 (Eng) DL/77FEB364

GLUCOSE, BLOOD

THE EFFECT OF CHANGES IN BLOOD GLUCOSE ON THE MOTILITY OF THE DUODENUM IN SHEEP. Mostaghni K, Howard BR *Cornell Vet* 66: 598-603, Oct 76 (Eng) DL/77FEB59

IMPAIRED PLASMA INSULIN RESPONSE TO ARGININE IN HYPERTHYROIDISM. IMPORTANT ROLE OF THE RISE OF BLOOD GLUCOSE IN THE SECOND PHASE OF INSULIN RELEASE INDUCED BY ARGININE. Imura H, Scino Y, Ikeda M, Taminato T, Miyamoto Y *Diabetes* 25: 961-8, Oct 76 (Eng) DL/77FEB104

BLOOD GLUCOSE MONITORING IN SYMPTOMATIC HYPOGLYCEMIA. Cole RA, Benedict GW, Margolis S, Kowarski A *Diabetes* 25: 984-8, Oct 76 (Eng) DL/77FEB108

RELATIONSHIPS BETWEEN MATERNAL GLUCOSE INTOLERANCE AND NEONATAL

Diabetes Literature—Keyword Index

GLUCOSE TOLERANCE TEST

GLUCOSE STIMULATION

- [32P] ORTHOPHOSPHATE EFFLUX FROM PANCREATIC ISLETS: GRADED RESPONSE TO GLUCOSE STIMULATION. Pierce M, Bukowiecki L, Asplund K, Freinkel N *Horm Metab Res* 8: 358-61, Sep 76 (Eng) DL/77FEB142

GLUCOSE TOLERANCE

- DETERIORATION IN GLUCOSE TOLERANCE FOLLOWING PROLONGED DIURETIC TREATMENT FOR HYPERTENSION [PROCEEDINGS]. Lewis PJ, Dollery CT, Kohner EM, Petrie A *Br J Clin Pharmacol* 2: 375p, Aug 75 (Eng) DL/77FEB5

- EPIDEMIOLOGIC FINDINGS ON THE RELATIONSHIP OF TIME OF DAY AND TIME SINCE LAST MEAL TO GLUCOSE TOLERANCE. Mayer KH, Stamler J, Dyer A, Freinkel N, Stamler R, Berkson DM, Farber B *Diabetes* 25: 936-43, Oct 76 (Eng) DL/77FEB100

- CLINICAL INVESTIGATION ON ABNORMAL GLUCOSE TOLERANCE IN LIVER CIRRHOSIS. Kato K, Kikuchi S, Ito M *Gastroenterol Jpn* 11: 31-7, 1976 (Eng) DL/77FEB129

- IA STUDY OF ROENTGENOLOGIC AORTIC CALCIFICATION, GLUCOSE TOLERANCE, AND INSULIN SECRETORY RESPONSE (AUTHORS TRANSL.) Tanaka T, Seki A, Fujii J, Kuzuya N *J Jpn Soc Intern Med* 65: 569-74, 10 Jun 76 (Jpn) DL/77FEB195

- GLUCOSE TOLERANCE AND HORMONE REPLACEMENT THERAPY. A PRELIMINARY STUDY. Sturdee DW, Gustafson RC, Moore B *Postgrad Med J* 52 SUPPL 6: 52-4, 1976 (Eng) DL/77FEB352

- [FATTY ACID PATTERNS AND GLUCOSE TOLERANCE IN HUNTINGTONS CHOREA (AUTHORS TRANSL.)] Schubotz R, Hausmann L, Kaffarnik H, Zehner J, Oepen H *Res Exp Med (Berl)* 167: 203-15, 2 Jul 76 (Ger) DL/77FEB376

- INSULIN KINETIC, GLUCOSE TOLERANCE, AND LIPID METABOLISM IN GENETICALLY SPONTANEOUS-HYPERTENSIVE RATS. Baumann R, Moritz V, Godicke W, Postnow JW, Ziegler M *Acta Biol Med Ger* 35: k 33-9, 1976 (Eng) DL/77FEB451

- SERUM TRIGLYCERIDES AND FATTY ACID INCORPORATION INTO HUMAN ADIPOSE TISSUE (TIAT). THEIR RELATIONS WITH ADIPOSE TISSUE CHARACTERISTICS AND GLUCOSE TOLERANCE. Walldius G *Acta Med Scand* 200: 409-21, 1976 (Eng) DL/77FEB460

GLUCOSE TOLERANCE, ORAL

- [COMPARATIVE STUDIES ON THE ORAL GLUCOSE TOLERANCE USING 50 AND 100G OF GLUCOSE WITH SPECIAL REFERENCE TO VARIOUS LIPID-METABOLISM PARAMETERS] Meinel H, Wolff E *Z Aerzt Fortbild (Jena)* 70: 943-6, 1 Sep 76 (Ger) DL/77FEB437

GLUCOSE TOLERANCE TEST

- A STUDY OF THE EFFECTS OF FASTING TIME ON THE ONE HOUR GLUCOSE TOLERANCE TEST. Parker RD *J Chronic Dis* 29: 667-76, Oct 76 (Eng) DL/77FEB165

- [CLINICAL STUDIES ON INSULIN RESPONSE TO GLUCOSE TOLERANCE TEST IN PATIENTS WITH PULMONARY TUBERCULOSIS (AUTHORS TRANSL.)] Oe N *Kekkaku* 51: 313-28, 15 Aug 76 (Jpn) DL/77FEB222

- [GLUCOSE TOLERANCE TESTS WITH ORAL GLUCOSE CHALLENGES OF 50 AND 100 GRAMS (AUTHORS TRANSL.)] Federico RD,

GLUCOSE METABOLISM

- INFLUENCE OF DIETARY ENERGY DURING GESTATION ON LAMBING PERFORMANCE, AND GLUCOSE METABOLISM IN FINNCROSS EWES. Prior RL, Christenson RK *J Anim Sci* 43: 1114-24, Nov 76 (Eng) DL/77FEB155

- GLUCOSE METABOLISM IN PERFUSED SKELETAL MUSCLE. EFFECTS OF STARVATION, DIABETES, FATTY ACIDS, ACETOACETATE, INSULIN AND EXERCISE ON GLUCOSE UPTAKE AND DISPOSITION. Berger M, Hagg SA, Goodman MN, Ruderman NB *Biochem J* 158: 191-202, 15 Aug 76 (Eng) DL/77FEB504

- EFFECTS OF REGIONAL ISCHEMIA ON METABOLISM OF GLUCOSE AND FATTY ACIDS. RELATIVE RATES OF AEROBIC AND ANAEROBIC ENERGY PRODUCTION DURING MYOCARDIAL INFARCTION AND COMPARISON WITH EFFECTS OF ANOXIA. Opic LH *Circ Res* 38: 152-74, May 76 (Eng) *DL/77FEB539

- METABOLIC PROPERTIES OF A PURIFIED PREPARATION OF LARGE FRAGMENTS OF THE CEREBELLAR GLOMERULI: GLUCOSE METABOLISM AND AMINO ACID UPTAKE. Wilson JE, Wilkin GP, Balazs R *J Neurochem* 26: 957-65, May 76 (Eng) *DL/77FEB600

GLUCOSE, ORAL

- [INTRAVENOUS AND ORAL GLUCOSE: PRODUCTION OF INSULIN AND GROWTH HORMONE IN THE NEWBORN INFANT] Dorantes Alvarez L, De Los Monteros Mena AE, Matus Seueira A, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 979-92, Sep-Oct 76 (Spa) DL/77FEB3

- [GLUCOSE TOLERANCE TESTS WITH ORAL GLUCOSE CHALLENGES OF 50 AND 100 GRAMS (AUTHORS TRANSL.)] Federico RD, Jablonka S, Mello EH, Reis LC *Rev Bras Pesqui Med Biol* 9: 213-6, Sep 76 (Por) DL/77FEB371

GLUCOSE OXIDATION

- THE EFFECTS OF MAZINDOL AND 46-034 (SANDOZ) ON GLUCOSE OXIDATION AND INSULIN BINDING BY RAT ISOLATED FAT CELLS. Harrison LC, King-Roach AP *Clin Exp Pharmacol Physiol* 3: 503-6, Sep-Oct 76 (Eng) DL/77FEB46

- EFFECTS OF MITOGENS ON GLUCOSE OXIDATION BY LYMPHOCYTES FROM NORMAL INDIVIDUALS AND PATIENTS WITH CHRONIC LYMPHOCYTIC LEUKEMIA. Tsan MF, Chen WY, Newman B, Wagner HN Jr, McIntyre PA *Johns Hopkins Med J* 138: 113-8, Apr 76 (Eng) *DL/77FEB603

GLUCOSE, PLASMA

- PROPRANOLOL EFFECT ON PLASMA GLUCOSE, FREE FATTY ACID, INSULIN, AND GROWTH HORMONE IN GRAVES DISEASE. Ortigosa JL, Mendoza F, Argote RM, Garcia G, Cervantes C, Parra A *Metabolism* 25: 1201-7, Nov 76 (Eng) DL/77FEB260

GLUCOSE PRODUCTION

- AN IMPORTANT ROLE FOR GLUCAGON IN THE REGULATION OF GLUCOSE PRODUCTION IN VIVO. Liljenquist JE, Chiasson JL, Cherrington AD, Keller U, Jennings AS, Bomboy JD, Lacy WW *Metabolism* 25: 1371-3, Nov 76 (Eng) DL/77FEB276

- BLOOD GLUCOSE. Haworth JC, Dilling LA *J Pediatr* 89: 810-3, Nov 76 (Eng) DL/77FEB207

- EVANESCENCE EFFECTS OF HYPO- AND HYPERGLUCAGONEMIA ON BLOOD GLUCOSE HOMEOSTASIS. Sherwin R, Wahren J, Felig P *Metabolism* 25: 1381-3, Nov 76 (Eng) DL/77FEB278

- [BLOOD GLUCOSE LEVELS IN PATIENTS ON HEMODIALYSIS DURING PROPRANOLOL (INDERAL) TREATMENT] Jensen HA, Laursen PA, Moller BB *Ugeskr Laeger* 138: 2956-7, 15 Nov 76 (Dan) DL/77FEB418

GLUCOSE DEHYDROGENASE

- [MICROMETHOD FOR THE DETERMINATION OF GLUCOSE WITH GLUCOSE DEHYDROGENASE IN THE AUTOANALYZER (AUTHORS TRANSL.)] Scholer A, Pianezzi A *J Clin Chem Clin Biochem* 14: 189-95, Apr 76 (Ger) *DL/77FEB597

GLUCOSE DETERMINATION

- [THE DETERMINATION OF GLUCOSE IN URINE] Poge AW *Z Med Labortech* 17: 59-78, 1976 (Ger) DL/77FEB441

- [MICROMETHOD FOR THE DETERMINATION OF GLUCOSE WITH GLUCOSE DEHYDROGENASE IN THE AUTOANALYZER (AUTHORS TRANSL.)] Scholer A, Pianezzi A *J Clin Chem Clin Biochem* 14: 189-95, Apr 76 (Ger) *DL/77FEB597

GLUCOSE DISPOSAL

- SOMATOSTATIN AND DIABETES: SUPPRESSION OF GLUCOSE ABSORPTION RATHER THAN STIMULATION OF GLUCOSE DISPOSAL. Felig P, Wahren J *Metabolism* 25: 1509-10, Nov 76 (Eng) DL/77FEB311

GLUCOSE HOMEOSTASIS

- ROLE OF GLUCAGON IN PERINATAL GLUCOSE HOMEOSTASIS. Sperling MA, Grajwer LA, Leake R, Fisher DA *Metabolism* 25: 1385-6, Nov 76 (Eng) DL/77FEB279

GLUCOSE INDUCED

- POTENTIATION OF GLUCOSE-INDUCED INSULIN RELEASE BY GLUCOSE IN THE ISOLATED PANCREAS OF FED AND FASTED RATS. Efendic S, Cerasi E, Luft R, Gladnikoff G *Diabetes* 25: 949-54, Oct 76 (Eng) DL/77FEB102

GLUCOSE INFUSION

- ARTERIAL-HEPATIC VEIN GLUCOSE DIFFERENCES IN NORMAL AND DIABETIC MAN AFTER A GLUCOSE INFUSION AT REST AND AFTER EXERCISE. Machlum S, Jervell J, Pruett ED *Scand J Clin Lab Invest* 36: 415-22, Sep 76 (Eng) DL/77FEB391

GLUCOSE INTOLERANCE

- RELATIONSHIPS BETWEEN MATERNAL GLUCOSE INTOLERANCE AND NEONATAL BLOOD GLUCOSE. Haworth JC, Dilling LA *J Pediatr* 89: 810-3, Nov 76 (Eng) DL/77FEB207

GLUCOSE KINETICS

- EFFECTS OF ARTERIAL VERSUS VENOUS SAMPLING ON ANALYSIS OF GLUCOSE KINETICS IN MAN. McGuire EA, Helderman JH, Tobin JD, Andres R, Berman M *Biochem J* 157: 565-73, 1 Sep 76 (Eng) DL/77FEB500

GLUCOSE TOLERANCE TEST, ORAL

Jablonka S, Mello EH, Reis LC *Rev Bras Pesqui Med Biol* 9: 213-6, Sep 76 (Par) DL/77FEB371

GLUCOSE TOLERANCE TEST, ORAL

ORAL GLUCOSE TOLERANCE TEST IN THE CYNOMOLGUS MONKEY (MACACA FASCICULARIS). Honjo S, Kondo Y, Cho F *Lab Anim Sci* 26: 771-6, Oct 76 (Eng) DL/77FEB231

GLUCOSE TRANSPORT

EFFECT OF CHRONIC ADMINISTRATION OF NICOTINE ON METABOLIC RESPONSES AND INTESTINAL GLUCOSE TRANSPORT. PP, 127-36. Bhagat B, van Beaumont W, Ellert MS In: Singh JM, Lal H, ed. *Drug addiction. Vol 40 New aspects of analytical and clinical toxicology*. New York, Stratton, 1974. W3 IN917KC 1973d. (Eng) [15] *DL/77FEB593

GLUCOSE TURNOVER

THE ROLE OF GLUCAGON-INSULIN INTERACTIONS IN CONTROL OF GLUCOSE TURNOVER AND ITS SIGNIFICANCE IN DIABETES. Vranic M, Ross G, Doi K, Lickley L *Metabolism* 25: 1375-80, Nov 76 (Eng) DL/77FEB277

GLUCOSE UPTAKE

STUDIES WITH FLUTIOREX, A NEW ANORECTIC DRUG, ON GLUCOSE UPTAKE INTO HUMAN ISOLATED SKELETAL MUSCLE. Kirby MJ, Carageorgiou-Maromihailakis H, Turner P *Br J Clin Pharmacol* 2: 541-2, Dec 75 (Eng) DL/77FEB66

EFFECT OF SOME RECEPTOR ANTAGONISTS ON FENFLURAMINE-INDUCED GLUCOSE UPTAKE INTO THE ISOLATED RAT HEMIDIAPHRAGM [PROCEEDINGS]. Kirby MJ, Turner P *Br J Pharmacol* 58: 286p-287p, Oct 76 (Eng) DL/77FEB18

GLUCOSE UPTAKE BY NORMAL HUMAN BREAST TISSUE IN ORGAN CULTURE. INFLUENCE OF INSULIN AND OTHER ADDITIVES. van Bogaert LJ *Cell Tissue Res* 171: 535-41, 1 Sep 76 (Eng) DL/77FEB40

GLUCOSE METABOLISM IN PERFUSED SKELETAL MUSCLE. EFFECTS OF STARVATION, DIABETES, FATTY ACIDS, ACETOACETATE, INSULIN AND EXERCISE ON GLUCOSE UPTAKE AND DISPOSITION. Berger M, Hagg SA, Goodman MN, Ruderman NB *Biochem J* 158: 191-202, 15 Aug 76 (Eng) DL/77FEB504

GLUCOSE, URINARY

[COMPARISON OF VARIOUS SEMI-QUANTITATIVE TESTS FOR DETERMINATION OF URINARY GLUCOSE IN DIABETICS (AUTHORS TRANSL)] Dorchy H, Loeb H *Diabete Metab* 1: 87-9, Jun 75 (Fre) DL/77FEB96

GLUCOSE UTILIZATION

ACTIVITY-RELATED INCREASES OF GLUCOSE UTILIZATION ASSOCIATED WITH REDUCED INCORPORATION OF GLUCOSE INTO ITS DERIVATIVES. Sharp FR *Brain Res* 107: 663-6, 14 May 76 (Eng) *DL/77FEB527

GLUCOSE-6-PHOSPHATASE

[HORMONAL AND VITAMIN REGULATION OF GLUCOSE-6-PHOSPHATASES ACTIVITY IN THE LIVER] Vinogradov VV, Mandrik KA, Ostrovskii IuM *Ukr Biokhim Zh* 48: 421-5, Jul-Aug 76 (Rus) DL/77FEB417

GLUCOSURIA

MECHANISM OF MALEIC ACID-INDUCED GLUCOSURIA IN DOG KIDNEY. Silverman M, Huang L *Am J Physiol* 231: 1024-32, Oct 76 (Eng) DL/77FEB472

GLUCOSYLTRANSFERASE

ELEVATED KIDNEY GLUCOSYLTRANSFERASE ACTIVITY IN GENETIC PRE-DIABETIC MICE. Reddi AS, Oppermann W, Reddy MP, Velasco CA, Camerini-Davalos RA *Experientia* 32: 1237-8, 15 Oct 76 (Eng) DL/77FEB75

GLUTAMATE DECARBOXYLASE

HIGH CONCENTRATION OF GABA AND HIGH GLUTAMATE DECARBOXYLASE ACTIVITY IN RAT PANCREATIC ISLETS AND HUMAN INSULINOMA. Okada Y, Taniguchi H, Shimada C *Science* 194: 620-2, 5 Nov 76 (Eng) DL/77FEB398

GLYCEROL

[MUSCLE METABOLISM OF GLUCOSE, LACTATE, FREE FATTY ACIDS, AND GLYCEROL AT REST AND DURING ELECTRICALLY STIMULATED EXERCISE IN THE PERFUSED RAT HIND LIMB (AUTHORS TRANSL)] Dieterle C, Gartner R, Dieterle P *Res Exp Med (Berl)* 168: 23-33, 22 Jul 76 (Ger) DL/77FEB378

[THE BEHAVIOR OF LIPOPROTEINS, CHOLESTEROL, TRIGLYCERIDES, FREE FATTY ACIDS AND FREE GLYCEROL IN SERUM OF RATS WITH EXPERIMENTAL HYPERTHYROXINEMIA AND HYPOTHYREOSIS] Hubner G, Renner K, Rauer G *Endokrinologie* 67: 60-6, Mar 67 (Ger) *DL/77FEB548

GLYCEROL METABOLISM

THE EFFECT OF GLUCOSE, INSULIN AND ADRENALINE ON GLYCEROL METABOLISM IN VITRO IN RAT ADIPOSE TISSUE. Dominguez MC, Herrera E *Biochem J* 158: 183-90, 15 Aug 76 (Eng) DL/77FEB503

14C-GLYCOCHOLATE

THE 14C-GLYCOCHOLATE TEST IN DIABETIC DIARRHOEA. Scarpello JH, Hague RV, Cullen DR, Sladen GE *Br Med J* 2: 673-5, 18 Sep 76 (Eng) DL/77FEB23

GLYCOGEN

STUDIES ON GLYCOGENOLYSIS IN CARP LIVER: EVIDENCE FOR AN AMYLASE PATHWAY FOR GLYCOGEN BREAKDOWN. Murat JC *Comp Biochem Physiol [B]* 55: 461-5, 1976 (Eng) DL/77FEB58

POSTMATURITY IN THE RAT: IMPAIRMENT OF INSULIN, GLUCAGON, AND GLYCOGEN STORES. Portha B, Rosselin G, Picon L *Diabetologia* 12: 429-36, Oct 76 (Eng) DL/77FEB110

UTILIZATION OF ENDOGENOUS LIPIDS AND GLYCOGEN IN THE PERFUSED RAT HEART: EFFECTS OF HYPOXIA AND EPINEPHRINE. Crass MF 3d, Shipp JC, Pieper GM *Recent Adv Stud Cardiac Struct Metab* 7: 219-24, 1975 (Eng) *DL/77FEB661

TRANSMURAL GRADIENTS IN THE ISCHEMIC DOG LEFT VENTRICLE: METABOLISM OF ENDOGENOUS TRIGLYCERIDES AND GLYCOGEN. Crass MF 3d, Holsinger JW Jr, Shipp JC, Eliot RS, Pieper GM *Recent Adv Stud Cardiac Struct Metab* 7: 225-30, 1975 (Eng) *DL/77FEB662

GLYCOGEN CONTENT

[THE GLYCOGEN CONTENT OF BLOOD AND UTERINE TISSUE IN WOMEN WITH MYOMA AND ENDOMETRIOSIS (AUTHORS TRANSL)] Muck BR, Hommel G *Arch Gynaekol* 221: 129-37, 17 Sep 76 (Ger) DL/77FEB493

A RAPID METHOD FOR THE DETERMINATION OF GLYCOGEN CONTENT AND RADIOACTIVITY IN SMALL QUANTITIES OF TISSUE OR ISOLATED HEPATOCYTES. Chan TM, Exton JH *Anal Biochem* 71: 96-105, Mar 76 (Eng) *DL/77FEB701

GLYCOGEN, LIVER

STUDIES ON THE ROLE OF CAMP-DEPENDENT PROTEIN KINASE IN THE ACTIONS OF GLUCAGON AND CATECHOLAMINES ON LIVER GLYCOGEN METABOLISM. Cherrington AD, Exton JH *Metabolism* 25: 1351-4, Nov 76 (Eng) DL/77FEB272

GLYCOGEN METABOLISM

REGULATION OF GLYCOGEN METABOLISM IN ASTROCYTOMA AND NEUROBLASTOMA CELLS IN CULTURE. Passonneau JV, Crites SK *J Biol Chem* 241: 2015-22, 10 Apr 76 (Eng) *DL/77FEB568

GLYCOGEN PHOSPHORYLASE

STUDIES ON ALLOSTERIC PHENOMENA IN GLYCOGEN PHOSPHORYLASE B. Madsen NB, Avramovic-Zikic O, Lue PF, Honikel KO *Mol Cell Biochem* 11: 35-50, 26 Mar 76 (Eng) [59] *DL/77FEB613

GLYCOGEN SYNTHASE

MULTIPLE FORMS OF GLYCOGEN SYNTHASE KINASE: ISOLATION OF FORMS WHICH ARE INDEPENDENT OF CYCLIC AMP. Reimann EM, Schlender KK *J Cyclic Nucleotide Res* 2: 39-46, 1976 (Eng) *DL/77FEB582

GLYCOGEN SYNTHASE D PHOSPHATASE

INSULIN STIMULATION OF HEART GLYCOGEN SYNTHASE D PHOSPHATASE (PROTEIN PHOSPHATASE). Nuttali FO, Gannon MC, Corbett VA, Wheeler MP *J Biol Chem* 251: 6724-9, 10 Nov 76 (Eng) DL/77FEB160

GLYCOGENOLYSIS

STUDIES ON GLYCOGENOLYSIS IN CARP LIVER: EVIDENCE FOR AN AMYLASE PATHWAY FOR GLYCOGEN BREAKDOWN. Murat JC *Comp Biochem Physiol [B]* 55: 461-5, 1976 (Eng) DL/77FEB58

DISCUSSION PAPER ON CHOLINERGIC REGULATION OF GLYCOGENOLYSIS AND PROTEIN SECRETION IN RAT SALIVARY GLANDS. PP, 295-6. Rossignol B, Herman G, Keryer G, Chambaut-Guerin AM, Ovtracht L, Bussan S, Brown EM, Fedak SA, Woodard CI, Aurbach GD In: Case RM, Goebell H, ed. *Stimulus-secretion coupling in the gastrointestinal tract*. Baltimore, Univ Park Press, 1976. W1 102 S859 1975. (Eng) *DL/77FEB585

GLYCOLYSIS

INHIBITION OF GLYCOLYSIS IN HEARTS DURING ISCHEMIC PERFUSION. Neely JR, Whitmer JT, Rovetto MJ *Recent Adv Stud Cardiac Struct Metab* 7: 243-8, 1975 (Eng) *DL/77FEB665

GROWTH HORMONE, PITUITARY

GLYCOLYTIC FLUX

ESTIMATED GLYCOLYTIC FLUX IN INFARTING HEART. Opie LH, Owen P, Lubbe W. *Recent Adv Stud Cardiac Struct Metab* 7: 249-55, 1975 (Eng) *DL/77FEB666

GLYCOLYTIC METABOLITE

THE EFFECT OF HYPERTHERMIA UPON OXYGEN CONSUMPTION AND UPON ORGANIC PHOSPHATES, GLYCOLYTIC METABOLITES, CITRIC AND CYCLE INTERMEDIATES AND ASSOCIATED AMINO ACIDS IN RAT CEREBRAL CORTICES. Carlsson C, Hagerdal M, Siesjö BK. *J Neurochem* 26: 1001-6, May 76 (Eng) *DL/77FEB599

GLYCOREGULATION

[PROBLEMS IN GLYCOREGULATION AND SENESCENCE] Gommers A, Jeanjean M, Dehez-Delhaye M. *Probl Actuels Endocrinol Nutr* serie 17: 193-207, 1973 (Fre) DL/77FEB357

GLYCOSURIA

INDUCTION OF GLYCOSURIA AND HYPERGLYCEMIA BY TOPICAL CORTICOSTEROID THERAPY. Gomez EC, Frost P. *Arch Dermatol* 112: 1559-62, Nov 76 (Eng) DL/77FEB489

GOLGI MEMBRANE

THE LEVEL AND COMPOSITION OF SEROMUCOID AND NONDIALYSABLE SERUM SUGAR-PEPTIDE FRACTION COMPARED WITH THE ACTIVITY OF GALACTOSYL TRANSFERASE (EC 2.4.1.38) OF LIVER GOLGI MEMBRANES IN INSULIN-TREATED RATS. Guzdek A, Kordowiak A, Sarnicka-Keller M. *Clin Chim Acta* 72: 393-9, 1 Nov 76 (Eng) DL/77FEB43

GONADOTROPIN

CONTROL OF GONADOTROPIN AND PROLACTIN SECRETION BY HYPOTHALAMIC RELEASING AND INHIBITING HORMONES. PP. 80-9. McCann SM, Cooper K, Harms PG, Libertun C, Negro-Vilar A, Ojeda SR, Orias R, Moss RL, Fawcett CP, Krulich L, Gilon C, Amoss M, Rivier C, Ling N, Burgus R, Guillemin R. In: *Lederer K, Cooper KE, ed. Recent studies of hypothalamic function.* Basel, Karger, 1974. WL 312 165r 1973. (Eng) *DL/77FEB589

GRAFT

PREOPERATIVE RISK FACTORS AND AORTA-CORONARY BYPASS GRAFT PATENCY. Blumlein SL, Anderson AJ, Barboriak JJ, Rimm AA, Walker J, Flemma R. *J Thorac Cardiovasc Surg* 72: 778-83, Nov 76 (Eng) DL/77FEB234

GRAVES DISEASE

PROPRANOLOL EFFECT ON PLASMA GLUCOSE, FREE FATTY ACID, INSULIN, AND GROWTH HORMONE IN GRAVES DISEASE. Ortigosa JL, Mendoza F, Argote RM, Garcia G, Cervantes C, Parra A. *Metabolism* 25: 1201-7, Nov 76 (Eng) DL/77FEB260

GROWTH

INDUCTION OF ORNITHINE DECARBOXYLASE IN CULTURED MOUSE L CELLS. I. EFFECTS OF CELLULAR GROWTH, HORMONES, AND ACTINOMYCIN D. Yamasaki Y, Ichihara A. *J Biochem (Tokyo)* 80: 557-62, Sep 76 (Eng) DL/77FEB157

MEAN 24-HOUR GROWTH HORMONE AND TESTOSTERONE CONCENTRATIONS IN RELATION TO PUBERTAL GROWTH SPURT IN BOYS WITH NORMAL OR DELAYED PUBERTY. Butenandt O, Eder R, Wohlfarth K, Bidlingmaier F, Knorr D. *Eur J Pediatr* 122: 85-92, 4 May 76 (Eng) *DL/77FEB551

EFFECT OF DIETARY SUBSTITUTION OF SUCROSE AND ITS CONSTITUENT MONOSACCHARIDES ON THE ACTIVITY OF AROMATIC HYDROXYLASE AND THE LEVEL OF CYTOCHROME P-450 IN HEPATIC MICROSOMES OF GROWING RATS. Basu TK, Dickerson JW, Parke DV. *Nutr Metab* 18: 302-9, 1975 (Eng) *DL/77FEB614

[EFFECT OF UNSATURATED DIETARY FATS ON GROWTH AND LIPOGENESIS IN RATS] Demarne Y, Toure M, Flanzky J, Lecourtier MJ. *Nutr Metab* 19: 28-40, 1975 (Fre) *DL/77FEB615

THE EFFECT OF GLUCOSE AND MANGANESE ON ADENOSINE-3,5-MONOPHOSPHATE LEVELS DURING GROWTH AND DIFFERENTIATION OF ASPERGILLUS NIDULANS. Zonneveld BJ. *Arch Microbiol* 108: 41-4, 3 May 76 (Eng) *DL/77FEB708

GROWTH FACTOR

STUDIES OF HUMAN DIPLOID FIBROBLAST GROWTH. I. RESPONSES OF NORMAL AND HYPOPIUITARY CELLS TO FIBROBLAST GROWTH FACTOR, INSULIN, AND SERUM. Jones KL, Addison JJ. *Clin Endocrinol Metab* 43: 721-9, Oct 76 (Eng) DL/77FEB166

GROWTH FACTOR, NERVE

THE ROLE OF NERVE-GROWTH FACTOR (NGF) IN THE CENTRAL NERVOUS SYSTEM. Freed WJ. *Brain Res Bull* 1: 393-412, Jul-Aug 76 (Eng) [243] DL/77FEB33

GROWTH HORMONE

[RELATIONSHIPS BETWEEN THYROTROPIN, GROWTH HORMONE AND INSULIN IN HYPOTHYROIDISM] Vergara Rodriguez J, De Los Monteros Mena AE, Chavarria Bonequi C. *Bol Med Hosp Infant Mex* 33: 1021-31, Sep-Oct 76 (Spa) DL/77FEB1

[INTRAVENOUS AND ORAL GLUCOSE: PRODUCTION OF INSULIN AND GROWTH HORMONE IN THE NEWBORN INFANT] Dorantes Alvarez L, De Los Monteros Mena AE, Matus Seueira A, Chavarria Bonequi C. *Bol Med Hosp Infant Mex* 33: 979-92, Sep-Oct 76 (Spa) DL/77FEB3

ESTIMATES OF THE KINETIC PARAMETERS OF GROWTH HORMONE METABOLISM IN FED AND FASTED CALVES AND SHEEP. Trenkle A. *J Anim Sci* 43: 1035-43, Nov 76 (Eng) DL/77FEB153

CELL SURFACE RECEPTORS FOR INSULIN AND HUMAN GROWTH HORMONE. EFFECT OF MICROTUBULE AND MICROFILAMENT MODIFIERS. Van Obberghen E, De Meyts P, Roth J. *J Biol Chem* 251: 6844-51, 10 Nov 76 (Eng) DL/77FEB161

GROWTH HORMONE AND INSULIN SECRETION. PP. 116-26. Bennett LL, Curry DL. In: *Pecile A, Muller EE, ed. Growth hormone and related peptides.* Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB180

HUMAN GROWTH HORMONE CHANGES WITH AGE. PP. 261-70. Bazzarre TL, Johanson AJ, Huseman CA, Varma MM, Blizzard RM. In: *Pecile A, Muller EE, ed. Growth hormone and related peptides.* Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB182

PROPRANOLOL EFFECT ON PLASMA GLUCOSE, FREE FATTY ACID, INSULIN, AND GROWTH HORMONE IN GRAVES DISEASE. Ortigosa JL, Mendoza F, Argote RM, Garcia G, Cervantes C, Parra A. *Metabolism* 25: 1201-7, Nov 76 (Eng) DL/77FEB260

THE BIOLOGY OF GROWTH HORMONE. Kostyo JL, Reagan CR. *Pharmacol Ther* [B] 2: 591-604, 1976 (Eng) [110] DL/77FEB362

[GROWTH HORMONE DETERMINATIONS IN CHILDREN WITH RHEUMATOID ARTHRITIS AND STILL'S SYNDROME (PROCEEDINGS)] Butenandt O, Eder R, Clados-Kelch A. *Z Rheumatol* 35 suppl 4: suppl 47-53, 1976 (Ger) DL/77FEB445

GROWTH HORMONE IN EXERCISE: COMPARISON OF PHYSIOLOGICAL AND PHARMACOLOGICAL STIMULI. Sutton J, Lazarus L. *Biochem J* 157: 523-7, 1 Sep 76 (Eng) DL/77FEB498

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL AND GROWTH HORMONE LEVELS IN YOUNG WEIGHT LIFTERS] Lukaszewska J, Biczowa B, Bobiewicz D, Wilk M, Obuchowicz-Fidels B. *Endokrynol Pol* 27: 149-57, Mar-Apr 76 (Pol) *DL/77FEB549

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL, TESTOSTERONE AND GROWTH HORMONE LEVELS IN WEIGHT LIFTERS] Skierska E, Ustupka J, Biczowa B, Lukaszewska J. *Endokrynol Pol* 27: 159-65, Mar-Apr 76 (Pol) *DL/77FEB550

MEAN 24-HOUR GROWTH HORMONE AND TESTOSTERONE CONCENTRATIONS IN RELATION TO PUBERTAL GROWTH SPURT IN BOYS WITH NORMAL OR DELAYED PUBERTY. Butenandt O, Eder R, Wohlfarth K, Bidlingmaier F, Knorr D. *Eur J Pediatr* 122: 85-92, 4 May 76 (Eng) *DL/77FEB551

INFLUENCE OF CHRONIC THYROTROPIN-RELEASING HORMONE INJECTIONS ON SECRETION OF PROLACTIN, THYROTROPIN AND GROWTH HORMONE AND ON GROWTH RATE IN WETHER LAMBS. Davis SL, Hill DM, Ohlson DL, Jacobs JA. *J Anim Sci* 42: 1244-50, May 76 (Eng) *DL/77FEB566

ACUTE AND CHRONIC ESTROGEN EFFECTS UPON SERUM SOMATOMEDIN ACTIVITY, GROWTH HORMONE, AND PROLACTIN IN MAN. Wiedemann E, Schwartz E, Frantz AG. *J Clin Endocrinol Metab* 42: 942-52, May 76 (Eng) *DL/77FEB577

DIET-INDUCED ALTERATIONS OF HGH SECRETION IN MAN. Merimee TJ, Pulkkinen AJ, Burton CE. *J Clin Endocrinol Metab* 62: 931-7, May 76 (Eng) *DL/77FEB578

CIRCADIAN PATTERN OF PROLACTIN AND GROWTH HORMONE LEVELS IN FEMALE RATS OF TWO STRAINS. Esber HJ, Kuo E, Bogden AE. *Lab Anim Sci* 26: 186-9, Apr 76 (Eng) *DL/77FEB604

GROWTH HORMONE, CYCLIC NUCLEOTIDES AND THE RAPID CONTROL OF TRANSLATION IN HEART MUSCLE. Mowbray J, Davies JA, Bates DJ, Jones CJ. *Biochem J* 152: 583-92, Dec 75 (Eng) *DL/77FEB712

GROWTH HORMONE, PITUITARY

IN VIVO AND IN VITRO ACTIONS OF SYNTHETIC PART SEQUENCES OF HUMAN PITUITARY GROWTH HORMONE. PP. 41-9. Bornstein J. In: *Pecile A, Muller EE, ed. Growth hormone and related peptides.* Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB183

HUMAN PITUITARY GROWTH HORMONE: RESTORATION OF FULL BIOLOGICAL ACTIVITY BY NONCOVALENT INTERACTION OF TWO FRAGMENTS OF THE HORMONE.

GROWTH HORMONE, PLASMA

Li CH, Bewley TA *Proc Natl Acad Sci USA* 73: 1476-9, May 76 (Eng) *DL/77FEB623

GROWTH HORMONE, PLASMA

STUDIES ON THE NATURE OF PLASMA GROWTH HORMONE. PP. 75-83. Ellis S, Grindland RE, Reilly TJ, Yang SH *Ino Picile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB191*

GROWTH HORMONE RELEASE

GROWTH HORMONE RELEASE IN HUNTINGTON DISEASE. PP. 252-60. Podolsky S, Leopold NA *Ino Picile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB181*

STRESS-INDUCED GROWTH HORMONE RELEASE: PSYCHOLOGIC AND PHYSIOLOGIC CORRELATES. Brown WA, Heninger G *Psychosom Med* 38: 145-7, Mar-Apr 76 (Eng) *DL/77FEB630

GROWTH HORMONE RELEASE INHIBITING HORMONE

EFFECTS OF GROWTH HORMONE RELEASE-INHIBITING HORMONE AND BROMOCRYPTINE (CB 154) IN STATES OF ABNORMAL PITUITARY-ADRENAL FUNCTION. Benker G, Hackenberg K, Hamburger B, Reinwein D *Clin Endocrinol (Oxf)* 5: 187-90, Mar 76 (Eng) *DL/77FEB542

EFFECTS OF GROWTH HORMONE-RELEASE INHIBITING HORMONE (GH-RH OR SOMATOSTATIN) ON SECRETORY PROCESSES IN STOMACH AND PANCREAS. PP. 407-12. Albinus M, Case RM, Reed JD, Shaw B, Smith PA, Gomez-Pan A, Hall R, Besser GM, Schally AV *Ino Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract. Baltimore, Univ Park Press, 1976. W1 102 S859 1975. (Eng) *DL/77FEB586*

GROWTH HORMONE SECRETION

NEUROENDOCRINE CONTROL OF GROWTH HORMONE SECRETION: EXPERIMENTAL AND CLINICAL STUDIES. PP. 236-51. Luzzi A, Panerai AE, Chiodini PG, Secchi C, Cocchi D, Botalla L, Silvestrini F, Muller EE *Ino Picile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB185*

SEROTONINERGIC CONTROL OF HUMAN GROWTH HORMONE SECRETION: THE ACTIONS OF L-DOPA AND 2-BROMO-ALPHA-ERGOCRYPTINE. PP. 222-35. Smythe GA, Compton PJ, Lazarus L *Ino Picile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB189*

DOPAMINE AND INHIBITION OF PROLACTIN AND GROWTH-HORMONE SECRETION. Massara F, Camanni F, Belforte L, Molinatti GM *Lancet* 1: 913, 24 Apr 76 (Eng) *DL/77FEB606

GROWTH, INHIBITION

EFFECTS OF DENSITY-DEPENDENT INHIBITION OF GROWTH ON PHOSPHOLIPID METABOLISM IN MONOLAYER CULTURES OF ANIMAL CELLS. Gallaher WR, Blough HA *Arch Biochem Biophys* 173: 738-46, Apr 76 (Eng) *DL/77FEB704

GROWTH RATE

INFLUENCE OF CHRONIC THYROTROPIN-RELEASING HORMONE INJECTIONS ON

SECRETION OF PROLACTIN, THYROTROPIN AND GROWTH HORMONE AND ON GROWTH RATE IN WETHER LAMBS. Davis SL, Hill DM, Ohlson DL, Jacobs JA *J Anim Sci* 42: 1244-50, May 76 (Eng) *DL/77FEB566

GUANOSINE-3,5-CYCLICMONOPHOSPHATE

STUDIES ON CYCLIC GMP-DEPENDENT PROTEIN KINASE PROPERTIES BY BLUE DEXTRAN-SEPHAROSE CHROMATOGRAPHY. Kobayashi R, Fang VS *Biochem Biophys Res Commun* 69: 1080-7, 19 Apr 76 (Eng) *DL/77FEB716

GUANYLYLIMIDODIPHOSPHATE

HOLOCATALYTIC STATE OF ADENYLATE CYCLASE IN TURKEY ERYTHROCYTE MEMBRANES: FORMATION WITH GUANYLYLIMIDODIPHOSPHATE PLUS ISOPROTERENOL WITHOUT EFFECT ON AFFINITY OF BETA-RECEPTOR. Spiegel AM, Brown EM, Fedak SA, Woodard CJ, Aurbach GD *J Cyclic Nucleotide Res* 2: 47-56, 1976 (Eng) *DL/77FEB583

GUT

PURIFICATION AND CHARACTERIZATION OF A PROTEIN FROM PORCINE GUT WITH GLUCAGON-LIKE IMMUNOREACTIVITY. Sundby F, Jacobsen H, Moody AJ *Horm Metab Res* 8: 366-71, Sep 76 (Eng) DL/77FEB143

GUT GLUCAGON

ELEVATED GUT GLUCAGON-LIKE IMMUNOREACTIVE MATERIAL IN HUMAN AND EXPERIMENTAL DIABETES AND ITS SUPPRESSION BY SOMATOSTATIN. Wider MD, Matsuyama T, Dunbar JC, Foa PP *Metabolism* 25: 1487-9, Nov 76 (Eng) DL/77FEB306

GUT HORMONE

KINETICS OF INSULIN SECRETION IN CHRONIC PANCREATITIS AND MILD MATURITY ONSET DIABETES. EVIDENCE FOR GUT HORMONE ACTION BEYOND GLUCORECEPTOR AND CYCLIC ADENOSINE MONOPHOSPHATE MEDIATED INSULIN RELEASE. Botha JL, Vinik AI, Blake KC, Jackson WP *Eur J Clin Invest* 6: 365-72, 10 Sep 76 (Eng) DL/77FEB72

GUT HORMONES AND THE ALPHA CELL. Bloom SR, Iversen J *Metabolism* 25: 1457-8, Nov 76 (Eng) DL/77FEB297

GYLCOGENOLYSIS

ASSOCIATION OF GYLCOGENOLYSIS WITH CARDIAC SARCOPLASMIC RETICULUM. Entam ML, Kanike K, Goldstein MA, Nelson TE, Bornet EP, Futch TW, Schwartz A *J Biol Chem* 251: 3140-6, 25 May 76 (Eng) *DL/77FEB575

HAMSTER, CHINESE

QUANTITATIVE EVALUATION OF SOMATOTROPIC CELLS (SC) IN THE ADENOHYPOPHYSIS OF NORMAL AND DIABETIC MALE CHINESE HAMSTERS. Deslex P, Rossi GL *Diabetologia* 12: 489-93, Oct 76 (Eng) DL/77FEB117

A MICROSURGICAL TECHNIQUE FOR ORTHOTOPIC OVARIAN TRANSPLANTATION IN THE CHINESE HAMSTER. Schmidt FL, Miller RL, Peterson T, Soret MG *Surgery* 80: 595-600, Nov 76 (Eng) DL/77FEB409

HCS

SEE SOMATOTROPIN, HUMAN CHORIONIC

HEALTH

NUTRITIONAL HEALTH IN A CHANGING SOCIETY - STUDIES FROM ISRAEL. Guggenheim K, Kaufmann NA *World Rev Nutr Diet* 24: 217-40, 1976 (Eng) [67] DL/77FEB436

HEART

INSULIN STIMULATION OF HEART GLYCOGEN SYNTHASE D PHOSPHATASE (PROTEIN PHOSPHATASE). Nuttali FO, Gannon MC, Corbett VA, Wheeler MP *J Biol Chem* 251: 6724-9, 10 Nov 76 (Eng) DL/77FEB160

INCORPORATION OF AMINO ACID INTO TOTAL AND CONTRACTILE PROTEIN OF TISSUE SLICES OF THE HYPERTROPHYING RAT HEART. Wollenberger A, Onnen K *Recent Adv Stud Cardiac Struct Metab* 1: 186-9, 1972 (Eng) *DL/77FEB638

ADRENERGIC NEUROHUMORS IN THE HEART OF HAMSTERS WITH HEREDITARY MYOPATHY DURING CARDIAC HYPERTROPHY AND FAILURE. Angelakos ET, Carballo LC, Daniels JB, King MP, Bajusz E *Recent Adv Stud Cardiac Struct Metab* 1: 262-78, 1972 (Eng) *DL/77FEB641

MECHANISM OF ETHANOL-INDUCED TRIGLYCERIDE ACCUMULATION IN THE RABBIT HEART. Kako KJ, Kikuchi T *Recent Adv Stud Cardiac Struct Metab* 1: 596-604, 1972 (Eng) *DL/77FEB647

ENERGY STATE AND ULTRASTRUCTURE OF THE SUBSTRATE-DEPLETED HEART. Dhalla NS, Yates JC, Olson RE *Recent Adv Stud Cardiac Struct Metab* 1: 81-94, 1972 (Eng) *DL/77FEB654

EFFECTS OF CHANGES IN THE CONCENTRATIONS OF SUBSTRATE AND OXYGEN ON THE PERFUSED RABBIT HEART. Whereat AF, Nelson JB *Recent Adv Stud Cardiac Struct Metab* 7: 211-7, 1975 (Eng) *DL/77FEB660

THE UPTAKE OF FREE FATTY ACID IN THE RAT HEART. Harris P, Achillea M, Gloster J *Recent Adv Stud Cardiac Struct Metab* 7: 23-7, 1975 (Eng) *DL/77FEB663

INHIBITION OF GLYCOLYSIS IN HEARTS DURING ISCHEMIC PERFUSION. Neely JR, Whitmer JT, Rovetto MJ *Recent Adv Stud Cardiac Struct Metab* 7: 243-8, 1975 (Eng) *DL/77FEB665

TEMPERATURE-DEPENDENT ETHANOL INHIBITION OF [14C]LEUCINE INCORPORATION IN MOUSE HEART SLICES. Gailis L *Recent Adv Stud Cardiac Struct Metab* 7: 443-9, 1975 (Eng) *DL/77FEB674

INFLUENCES OF DIETARY FATS ON THE CORONARY FLOW AND OXYGEN CONSUMPTION OF THE ISOLATED RAT HEART. de Deckere EA, ten Hoor F *Recent Adv Stud Cardiac Struct Metab* 7: 475-83, 1975 (Eng) *DL/77FEB676

HEART, ATROPHIC

THE HORMONAL RESTORATION OF THE INTRINSIC CONTRACTILE FUNCTION OF THE ATROPHIC HEARTS OF HYPOPHYSECTOMIZED RATS. Korecky B, Taichman GC, Minelli R, Beznak M *Recent Adv Stud Cardiac Struct Metab* 1: 71-80, 1972 (Eng) *DL/77FEB651

HEART CELL

ERUCIC ACID METABOLISM BY CULTURED BEATING HEART CELLS OF THE POST-

Diabetes Literature—Keyword Index

HEPATIC HYPERPLASIA

HEMORRHAGIC

TOTAL PANCREATECTOMY IN THE TREATMENT OF ACUTE NECROTISING AND HEMORRHAGIC PANCREATITIS. INDICATIONS-TECHNIQUE. Alexandre JH, Chambon H, Assan R *Langenbecks Arch Chir* 340: 231-47, 23 Apr 76 (Eng) DL/77FEB255

HEMOSTASIS

[ABNORMALITIES IN PRIMARY HEMOSTASIS DURING DIABETIC MICROANGIOPATHY] Bensoussan D, Levy-Toledano S, Passa P *Acad Rev* 5: 2383-6, 30 Oct 76 (Fre) DL/77FEB457

HEMOSTATIC FUNCTION

[DIABETES MELLITUS, HEMOSTATIC FUNCTION, AND DIABETIC ANGIOPATHY] Zoller H, Gutmann W, Fahrner E, Gross W *Med Welt* 27: 1742-3, 10 Sep 76 (Ger) DL/77FEB258

HEMOSTATIC SYSTEM

[ROLE OF THE THROMBOCYTES IN CHANGES IN THE HEMOSTATIC SYSTEM IN DIABETES MELLITUS] Petrov MN, Gavrishcheva NA, Filatova AM, Tsikarishvili NV, Vashkinel VK *Klin Med (Mosk)* 54: 119-22, Jul 76 (Rus) DL/77FEB229

HEPARIN

EFFECT OF HEPARIN ON INSULIN SECRETION IN VIVO AND IN VITRO. Orosz L *Res Exp Med (Berl)* 167: 239-54, 2 Jul 76 (Eng) DL/77FEB377

HEPATIC

THE INFLUENCE OF GLUCAGON UPON THE RESPONSES OF THE HEPATIC ARTERIAL VASCULATURE TO VASODILATOR AGENTS [PROCEEDINGS]. Richardson PD, Withington PG *Br J Pharmacol* 57: 473p, Jul 76 (Eng) DL/77FEB17

BEHAVIOR OF THE LYSOSOMAL SYSTEM DURING ORGAN PERFUSION. AN INQUIRY INTO THE MECHANISM OF HEPATIC PROTEOLYSIS. Mortimore GE, Ward WF *Front Biol* 45: 157-84, 1976 (Eng) [65] DL/77FEB80

INSULIN, GLUCAGON, AMINOACID IMBALANCE, AND HEPATIC ENCEPHALOPATHY. Soeters PB, Fischer JE *Lancet* 2: 880-2, 23 Oct 76 (Eng) DL/77FEB245

INSULIN, GLUCAGON, AND THE CONTROL OF HEPATIC STRUCTURE, FUNCTION, AND CAPACITY FOR REGENERATION. Stazd TE, Porter KA, Putnam CW *Metabolism* 25: 1429-34, Nov 76 (Eng) DL/77FEB290

ARTERIAL-HEPATIC VEIN GLUCOSE DIFFERENCES IN NORMAL AND DIABETIC MAN AFTER A GLUCOSE INFUSION AT REST AND AFTER EXERCISE. Maehlum S, Jervell J, Pruett ED *Scand J Clin Lab Invest* 36: 415-22, Sep 76 (Eng) DL/77FEB391

HEPATIC ADENYLATE CYCLASE

REGULATION OF HEPATIC ADENYLATE CYCLASE BY GLUCAGON, GTP, DIVALENT CATIONS, AND ADENOSINE. Rodbell M, Londos C *Metabolism* 25: 1347-9, Nov 76 (Eng) DL/77FEB271

HEPATIC HYPERPLASIA

MITOCHONDRIAL FUNCTIONAL CHANGES DURING HEPATIC HYPERPLASIA AND AZO DYE CARCINOGENESIS. Higgins ES, Rogers KS, Marks PA *Chem Biol Interact* 13: 295-305, Jun 76 (Eng) *DL/77FEB532

NATAL RAT. Pinson A, Padieu P *Recent Adv Stud Cardiac Struct Metab* 7: 29-40, 1975 (Eng) *DL/77FEB672

HEART DISEASE, CORONARY

NATURAL HISTORY OF CORONARY HEART DISEASE. Gorlin R *Major Probl Intern Med* 11: 195-215, 1976 (Eng) DL/77FEB236

SMOKING AND OTHER RISK FACTORS FOR CORONARY HEART-DISEASE IN BRITISH CIVIL SERVANTS. Reid DD, Hamilton PJ, McCartney P, Rose G, Jarrett RJ, Keen H *Lancet* 2: 979-84, 6 Nov 76 (Eng) DL/77FEB253

HEART DISEASE, ISCHEMIC

[DIABETES MELLITUS AS RISK FACTOR OF ISCHEMIC HEART DISEASE AND REFLECTED IN SERUM LIPID LEVELS.] Kusa O *Bratisl Lek Listy* 66: 28-37, 1 Jul 76 (Slo) DL/77FEB35

[AMOUNT OF ACETONE AND ETHYL ALCOHOL IN THE BLOOD AND URINE OF PATIENTS WITH DIABETES MELLITUS AND ISCHEMIC HEART DISEASE] Kamysheva EP, Sorochkina RM, Kapatsinskaja LK, Romanova LN, Danilova MI *Sov Med* 147-8, Apr 76 (Rus) DL/77FEB403

LIPID METABOLISM AND ISCHAEMIC HEART DISEASE IN THE ELDERLY. Horsey J, Livesley B *Age Ageing* 5: 75-83, May 76 (Eng) *DL/77FEB699

HEART FAILURE

MYOCARDIAL METABOLIC CHANGES IN CARDIAC HYPERTROPHY AND HEART FAILURE. Fizeleva A, Fizelev A *Recent Adv Stud Cardiac Struct Metab* 1: 200-12, 1972 (Eng) *DL/77FEB639

HEART, INFARCTING

ESTIMATED GLYCOLYTIC FLUX IN INFARCTING HEART. Opie LH, Owen P, Lubbe W *Recent Adv Stud Cardiac Struct Metab* 7: 249-55, 1975 (Eng) *DL/77FEB666

HEART, ISOLATED PERFUSED RAT

METABOLISM OF ERUCIC ACID IN THE ISOLATED PERFUSED RAT HEART. Vasdev SC, Kako KJ *Biochim Biophys Acta* 431: 22-32, 22 Apr 76 (Eng) *DL/77FEB523

HEART MITOCHONDRIA

RESPONSES OF THE HEART MITOCHONDRIA TO CHRONIC CARDIAC OVERLOAD AND PHYSICAL EXERCISE. Wollenberger A *Recent Adv Stud Cardiac Struct Metab* 1: 213-22, 1972 (Eng) *DL/77FEB640

BETA-HYDROXY FATTY ACID PRODUCTION DURING FATTY ACID OXIDATION BY HEART MITOCHONDRIA. Hull FE, Radloff JF, Sweetley CC *Recent Adv Stud Cardiac Struct Metab* 7: 13-21, 1975 (Eng) *DL/77FEB657

HEART MUSCLE

FACTORS CONTROLLING PROTEIN SYNTHESIS IN HEART MUSCLE. Hjalmarson AC, Isaksson O, Kallfelt BJ *Adv Cardiol* 18: 57-80, 1976 (Eng) DL/77FEB463

METABOLISM OF EXOGENOUS AND ENDOGENOUS FATTY ACIDS IN HEART MUSCLE. Crass MF 3d, Shipp JC *Recent Adv Stud Cardiac Struct Metab* 1: 115-26, 1972 (Eng) *DL/77FEB634

METABOLISM OF NOREPINEPHRINE IN NONINFARCTED HEART MUSCLE AFTER

EXPERIMENTAL MYOCARDIAL INFARCTION. Mathes P, Sack DW, Gudbjarnason S *Recent Adv Stud Cardiac Struct Metab* 7: 283-7, 1975 (Eng) *DL/77FEB670

GROWTH HORMONE, CYCLIC NUCLEOTIDES AND THE RAPID CONTROL OF TRANSLATION IN HEART MUSCLE. Mowbray J, Davies JA, Bates DJ, Jones CJ *Biochem J* 152: 583-92, Dec 75 (Eng) *DL/77FEB712

HEART OVERLOAD

PARTICIPATION OF CATECHOLAMINES AND CORTICAL HORMONES IN THE MYOCARDIAL METABOLIC ADAPTATION TO MECHANICAL OVERLOAD OF THE HEART. Fizelev A, Fizeleva A *Recent Adv Stud Cardiac Struct Metab* 1: 814-27, 1972 (Eng) *DL/77FEB655

HEART, PERFUSED

EFFECTS OF ANOXIA AND ISCHEMIA ON PROTEIN SYNTHESIS IN PERFUSED RAT HEARTS. Kao R, Rannels DE, Morgan HE *Circ Res* 38: 1124-30, May 76 (Eng) *DL/77FEB536

INFLUENCE OF FREE FATTY ACIDS ON MYOCARDIAL MECHANICS AND OXYGEN CONSUMPTION IN RAT PAPILLARY MUSCLES AND PERFUSED HEARTS, UNDER OXYGENATED AND HYPOXIC CONDITIONS. Henderson AH, Sonnenblick EH *Recent Adv Stud Cardiac Struct Metab* 1: 147-62, 1972 (Eng) *DL/77FEB636

UTILIZATION OF ENDOGENOUS LIPIDS AND GLYCOGEN IN THE PERFUSED RAT HEART: EFFECTS OF HYPOXIA AND EPINEPHRINE. Crass MF 3d, Shipp JC, Pieper GM *Recent Adv Stud Cardiac Struct Metab* 7: 219-24, 1975 (Eng) *DL/77FEB661

HEMIDIAPHRAGM

EFFECT OF SOME RECEPTOR ANTAGONISTS ON FENFLURAMINE-INDUCED GLUCOSE UPTAKE INTO THE ISOLATED RAT HEMIDIAPHRAGM [PROCEEDINGS]. Kirby MJ, Turner P *Br J Pharmacol* 58: 286p-287p, Oct 76 (Eng) DL/77FEB18

HEMOCHROMATOSIS, IDIOPATHIC

A STUDY OF PITUITARY FUNCTION IN PATIENTS WITH IDIOPATHIC HEMOCHROMATOSIS. Walsh CH, Wright AD, Williams JW, Holder G *J Clin Endocrinol Metab* 43: 866-72, Oct 76 (Eng) DL/77FEB169

HEMODIALYSIS

METHYLGUANIDINE AND INSULIN RESPONSE IN PATIENTS ON MAINTENANCE HAEMODIALYSIS [LETTER]. Ferrannini E, Navalesi R, Pilo A, Morelli E *Lancet* 2: 1028-9, 6 Nov 76 (Eng) DL/77FEB252

[BLOOD GLUCOSE LEVELS IN PATIENTS ON HEMODIALYSIS DURING PROPRANOLOL (INDERAL) TREATMENT] Jensen HA, Laursen PA, Moller BB *Ugeskr Laeger* 138: 2956-7, 15 Nov 76 (Dan) DL/77FEB418

HEMOLYSIS

FRAGMENTATION HAEMOLYSIS IN PATIENTS WITH SEVERE DIABETIC ANGIOPATHY. Brunning RD, Jacob HS, Brenckman WD, Jimenez-Pasquau F, Goetz FC *Br J Haematol* 34: 283-9, Oct 76 (Eng) DL/77FEB7

Diabetes Literature—Keyword Index

HEPATIC MICROSOME

HEPATIC MICROSOME

EFFECT OF DIETARY SUBSTITUTION OF SUCROSE AND ITS CONSTITUENT MONOSACCHARIDES ON THE ACTIVITY OF AROMATIC HYDROXYLASE AND THE LEVEL OF CYTOCHROME P-450 IN HEPATIC MICROSOMES OF GROWING RATS. Basu TK, Dickerson JW, Parke DV *Nutr Metab* 18: 302-9, 1975 (Eng) *DL/77FEB614

HEPATIC PROLIFERATION

PRESENT PARADOXES IN THE ENVIRONMENTAL CONTROL OF HEPATIC PROLIFERATION. Leffert HL, Koch KS, Rubalcava B *Cancer Res* 36: 4250-5, Nov 76 (Eng) DL/77FEB38

CONTROL OF HEPATIC PROLIFERATION: A WORKING HYPOTHESIS INVOLVING HORMONES, LIPOPROTEINS, AND NOVEL NUCLEOTIDES. Koch KS, Leffert HL *Metabolism* 25: 1419-22, Nov 76 (Eng) DL/77FEB287

HEPATOCYTE

HORMONAL STIMULATION OF DNA SYNTHESIS IN PRIMARY CULTURES OF ADULT RAT HEPATOCYTES. Richman RA, Claus TH, Pilks SJ, Friedman DL *Proc Natl Acad Sci USA* 73: 3589-93, Oct 76 (Eng) DL/77FEB360

HEPATOCYTE, ISOLATED

POSSIBLE ROLE OF PYRUVATE KINASE IN THE HORMONAL CONTROL OF DIHYDROXYACETONE GLUCONEOGENESIS IN ISOLATED HEPATOCYTES. Pilks SJ, Claus TH, Riou JP, Park CR *Metabolism* 25: 1355-60, Nov 76 (Eng) DL/77FEB273

GLUCAGON STIMULATES THE A SYSTEM FOR NEUTRAL AMINO ACID TRANSPORT IN ISOLATED HEPATOCYTES OF ADULT RAT. Le Cam A, Freychet P *Biochem Biophys Res Commun* 72: 893-901, 4 Oct 76 (Eng) DL/77FEB510

CYCLIC NUCLEOTIDE-, PYRUVATE- AND HORMONE-INDUCED CHANGES IN PYRUVATE KINASE ACTIVITY IN ISOLATED RAT HEPATOCYTES. van Berkel TJ, Kruijt JK, Koster JF, Hulsman WC *Biochem Biophys Res Commun* 72: 917-25, 4 Oct 76 (Eng) DL/77FEB511

A RAPID METHOD FOR THE DETERMINATION OF GLYCOGEN CONTENT AND RADIOACTIVITY IN SMALL QUANTITIES OF TISSUE OR ISOLATED HEPATOCYTES. Chan TM, Exton JH *Anal Biochem* 71: 96-105, Mar 76 (Eng) *DL/77FEB701

HEPATOMA

HYPOGLYCEMIA AND HYPOINSULINEMIA ASSOCIATED WITH HEPATOMA IN A DOG. Strombeck DR, Krum S, Meyer D, Kappesser RM *J Am Vet Med Assoc* 169: 811-2, 15 Oct 76 (Eng) DL/77FEB152

HEREDITARY

ADRENERGIC NEUROHUMORS IN THE HEART OF HAMSTERS WITH HEREDITARY MYOPATHY DURING CARDIAC HYPERTROPHY AND FAILURE. Angelakos ET, Carballo LC, Daniels JB, King MP, Bajusz E *Recent Adv Stud Cardiac Struct Metab* 1: 262-78, 1972 (Eng) *DL/77FEB641

HEXOSE

PANCREATIC BETA CELL REPLICATION: EFFECTS OF HEXOSE SUGARS. King DL, Chick WL *Endocrinology* 99: 1003-9, OCT 76 (Eng) DL/77FEB68

HEXOSE PHOSPHATE

THE HEXOSE PHOSPHATE TRANSPORT SYSTEM OF ESCHERICHIA COLI. Dietz GW Jr *Adv Enzymol* 44: 237-59, 1976 (Eng) *DL/77FEB692

HGH

SEE GROWTH HORMONE

HIGH-DENSITY LIPOPROTEIN

A MECHANISM BY WHICH HIGH-DENSITY LIPOPROTEINS MAY SLOW THE ATHEROGENIC PROCESS. Carew TE, Koschinsky T, Hayes SB, Steinberg D *Lancet* 1: 1315-7, 19 Jun 76 (Eng) *DL/77FEB607

HIPPOCAMPUS

[CORRELATIONS BETWEEN HIPPOCAMPUS FUNCTION AND STRESSED LEARNING AND THEIR EFFECT ON CEREBRO-VISCERAL REGULATION PROCESSES] Hecht K, Hai NV, Hecht T, Moritz V, Woosmann H *Acta Biol Med Ger* 35: 35-45, 1976 (Ger) DL/77FEB449

HISTAMINE

EFFECT OF THE HISTAMINE H2-RECEPTOR ANTAGONIST, CIMETIDINE, ON GASTRIC SECRETION AND SERUM GASTRIN DURING INSULIN INFUSION IN MAN. Carter DC, Forrest JA, Logan RA, Ansell I, Lidgard G, Heading RC, Shearman DJ *Scand J Gastroenterol* 11: 565-70, 1976 (Eng) DL/77FEB393

HISTIDINE-PYRUVATE AMINOTRANSFERASE

ORGAN DISTRIBUTION OF RAT HISTIDINE-PYRUVATE AMINOTRANSFERASE ISOENZYMES. Noguchi T, Minatogawa Y, Okuno E, Kido R *Biochem J* 157: 635-41, 1 Sep 76 (Eng) DL/77FEB502

HISTOLOGY

HISTOLOGIC CHARACTERISTICS OF INSULINOMAS AND GASTRINOMAS. VALUE OF ARGYROPHILIA, METACHROMASIA, IMMUNOHISTOLOGY, AND ELECTRON MICROSCOPY FOR THE IDENTIFICATION OF GASTROINTESTINAL AND PANCREATIC ENDOCRINE CELLS AND THEIR TUMORS. Woodtli W, Hedinger C *Virchows Arch [Pathol Anat]* 371: 331-50, 7 Oct 76 (Eng) DL/77FEB425

HISTONE

[EFFECTS OF HISTONES ON PHAGOCYTOSIS AND PHAGOCYTIC METABOLISM] Agbaba O *Rev Can Biol* 35: 25-31, Mar 76 (Fre) *DL/77FEB632

HLA

SEE HUMAN LEUCOCYTE ANTIGEN

HOLOCATALYTIC STATE

HOLOCATALYTIC STATE OF ADENYLATE CYCLASE IN TURKEY ERYTHROCYTE MEMBRANES: FORMATION WITH GUANYLYLIMIDODIPHOSPHATE PLUS ISOPROTERENOL WITHOUT EFFECT ON AFFINITY OF BETA-RECEPTOR. Spiegel AM, Brown EM, Fedak SA, Woodard CJ, Aurbach GD *J Cyclic Nucleotide Res* 2: 47-56, 1976 (Eng) *DL/77FEB583

HOMEOSTASIS

EVANESCENT EFFECTS OF HYPO- AND HYPERGLUCAGONEMIA ON BLOOD GLUCOSE HOMEOSTASIS. Sherwin R, Wahren J, Felig P *Metabolism* 25: 1381-3, Nov 76 (Eng) DL/77FEB278

HORMONAL

EFFECT OF SOMATOSTATIN ON METABOLIC AND HORMONAL CHANGES INDUCED BY NICOTINIC ACID IN INSULIN-DEPENDENT DIABETICS. Luyckx AS, Lefebvre PJ *Diabetologia* 12: 447-53, Oct 76 (Eng) DL/77FEB113

HORMONAL STIMULATION OF DNA SYNTHESIS IN PRIMARY CULTURES OF ADULT RAT HEPATOCYTES. Richman RA, Claus TH, Pilks SJ, Friedman DL *Proc Natl Acad Sci USA* 73: 3589-93, Oct 76 (Eng) DL/77FEB360

THE HORMONAL RESTORATION OF THE INTRINSIC CONTRACTILE FUNCTION OF THE ATROPHIC HEARTS OF HYPOPHYSECTOMIZED RATS. Korecky B, Taichman GC, Minelli R, Beznak M *Recent Adv Stud Cardiac Struct Metab* 1: 71-80, 1972 (Eng) *DL/77FEB651

HORMONAL CONTROL

POSSIBLE ROLE OF PYRUVATE KINASE IN THE HORMONAL CONTROL OF DIHYDROXYACETONE GLUCONEOGENESIS IN ISOLATED HEPATOCYTES. Pilks SJ, Claus TH, Riou JP, Park CR *Metabolism* 25: 1355-60, Nov 76 (Eng) DL/77FEB273

MECHANISMS OF HORMONAL CONTROL OF GLUCONEOGENESIS. Haynes RC Jr *Metabolism* 25: 1361-3, Nov 76 (Eng) DL/77FEB274

HORMONAL DISORDER

[HORMONAL DISORDERS IN A PATIENT WITH MORGAGNI-MOREL-STEWART SYNDROME] Hrycek A, Kubek A, Grabski J, Kalina Z *Wiad Lek* 29: 1673-6, 15 Sep 76 (Pol) DL/77FEB432

HORMONAL REGULATION

HORMONAL REGULATION OF THE AFFINITY AND CONCENTRATION OF HORMONE RECEPTORS IN TARGET CELLS. DeMeys P, Kahn CR, Roth J, Bar RS *Metabolism* 25: 1365-70, Nov 76 (Eng) DL/77FEB275

[HORMONAL AND VITAMIN REGULATION OF GLUCOSE-6-PHOSPHATASE ACTIVITY IN THE LIVER] Vinogradov VV, Mandrik KA, Ostrovskii IuM *Ukr Biokhim Zh* 48: 421-5, Jul-Aug 76 (Rus) DL/77FEB417

HORMONAL RESPONSE

HORMONAL RESPONSES AND THEIR EFFECT ON METABOLISM. Wilmore DW *Surg Clin North Am* 56: 999-1018, Oct 76 (Eng) DL/77FEB407

HORMONE

KINETICS OF INSULIN SECRETION IN CHRONIC PANCREATITIS AND MILD MATURITY ONSET DIABETES. (EVIDENCE FOR GUT HORMONE ACTION BEYOND GLUCORECEPTOR AND CYCLIC ADENOSINE MONOPHOSPHATE MEDIATED INSULIN RELEASE). Botha JL, Vinik AI, Blake KC, Jackson WP *Eur J Clin Invest* 6: 365-72, 10 Sep 76 (Eng) DL/77FEB72

HORMONE REGULATED REDOX FUNCTION IN PLASMA MEMBRANES. Low H, Crane FL *FEBS Lett* 68: 157-9, 1 Oct 76 (Eng) DL/77FEB77

THE EFFECTS OF HORMONES AND PROSTAGLANDINS ON THE CALCIUM POOLS IN CULTURED MYOCARDIAL CELLS. Moura AM, Simpkins H *Mol Cell Endocrinol* 5: 349-57, OCT 76 (Eng) DL/77FEB98

LUTEINIZING RELEASE HORMONE TESTS IN IMPOTENT DIABETIC MALES. Wright AD, London DR, Holder G, Williams JW, Rudd BT *Diabetes* 25: 975-7, OCT 76 (Eng) DL/77FEB106

MODULATION OF FATTY ACID METABOLISM BY GLUCAGON IN MAN. IV. EFFECTS OF A PHYSIOLOGIC HORMONE INFUSION IN NORMAL MAN. Schade DS, Eaton RP *Diabetes* 25: 978-83, OCT 76 (Eng) DL/77FEB107

INDUCTION OF ORNITHINE DECARBOXYLASE IN CULTURED MOUSE L CELLS. I. EFFECTS OF CELLULAR GROWTH, HORMONES, AND ACTINOMYCIN D. Yamasaki Y, Ichihara A *J Biochem (Tokyo)* 80: 557-62, Sep 76 (Eng) DL/77FEB157

SOMATOSTATIN, A HORMONE OF THE ALPHA 1-CELLS OF THE PANCREATIC ISLETS AND ITS INFLUENCE ON THE SECRETION OF INSULIN AND GLUCAGON. P. 216-21. Efendic S, Hokfelt T, Luft R *Ino Picile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB190*

CONTROL OF HEPATIC PROLIFERATION: A WORKING HYPOTHESIS INVOLVING HORMONES, LIPOPROTEINS, AND NOVEL NUCLEOTIDES. Koch KS, Leffert HL *Metabolism* 25: 1419-22, Nov 76 (Eng) DL/77FEB287

GLUCOSE TOLERANCE AND HORMONE REPLACEMENT THERAPY. A PRELIMINARY STUDY. Sturdee DW, Gustafson RC, Moore B *Postgrad Med J* 52 SUPPL 6: 52-4, 1976 (Eng) DL/77FEB352

[RELATIONSHIP BETWEEN HORMONE CONCENTRATION IN PERIPHERAL BLOOD IN HYPERTENSION, ARTERIOSCLEROSIS AND OBESITY] Kokina LP, Lyskova MN, Tkacheva GA, Gabunia RI, Syzgantseva LM *Ter Arkh* 48: 81-4, 1976 (Rus) DL/77FEB410

[ANALYSIS OF BREAST CELL DIFFERENTIATION IN TISSUE CULTURE UNDER THE INFLUENCE OF HORMONES] Kalantar IL, Khrustaleva GI, Nepochurenko LV, Medvedev IK *Tsitologia* 18: 1014-9, Aug 76 (Rus) DL/77FEB416

PHYSICAL ACTIVITY AND HORMONES. Adlercreutz H, Harkonen M, Kuoppasalmi K, Kosunen K, Naveri H, Rehnun S *Adv Cardiol* 18: 144-57, 1976 (Eng) DL/77FEB461

EFFECTS OF HORMONES ON PROTEIN AND AMINO ACID METABOLISM IN MAMMARY-GLAND EXPLANTS OF MICE. Anderson LD, Rillema JA *Biochem J* 158: 355-9, 15 Aug 76 (Eng) DL/77FEB506

CYCLIC NUCLEOTIDE-, PYRUVATE- AND HORMONE-INDUCED CHANGES IN PYRUVATE KINASE ACTIVITY IN ISOLATED RAT HEPATOCYTES. van Berkel TJ, Kruijt JK, Koster JF, Hulsmann WC *Biochem Biophys Res Commun* 72: 917-25, 4 Oct 76 (Eng) DL/77FEB511

A RAPID IMMUNOLOGICAL PROCEDURE FOR THE ISOLATION OF HORMONALLY SENSITIVE RAT FAT-CELL PLASMA MEMBRANE. Luzio JP, Newby AC, Hales CN *Biochem J* 154: 11-21, 15 Jan 76 (Eng) *DL/77FEB714

HORMONE, ADENOHYPOPHYSIAL

MECHANISM OF ACTION OF HYPOTHALAMIC-RELEASING HORMONES. ROLE OF IONS IN THE RELEASE OF ADENOHYPOPHYSIAL HORMONES. PP. 207-15. Kraicer J *Ino Lederis*

K, Cooper KE, ed. *Recent studies of hypothalamic function. Basel, Karger, 1974. WL 312 165r 1973. (Eng) [18] *DL/77FEB591*

HORMONE, ANTERIOR PITUITARY

CONTROL OF ANTERIOR PITUITARY HORMONE SECRETION. HYPOTHALAMIC PEPTIDES AND THEIR INTERACTIONS. PP. 180-95. Grant G, Vale W, Brazeau P, Rivier J, Monahan M, Gilon C, Amoss M, Rivier C, Ling N, Burgess R, Guillemin R *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function. Basel, Karger, 1974. WL 312 165r 1973. (Eng) [39] *DL/77FEB588*

HORMONE, CORTICAL

PARTICIPATION OF CATECHOLAMINES AND CORTICAL HORMONES IN THE MYOCARDIAL METABOLIC ADAPTATION TO MECHANICAL OVERLOAD OF THE HEART. Fizez A, Fizezlova A *Recent Adv Stud Cardiac Struct Metab* 1: 814-27, 1972 (Eng) *DL/77FEB655

HORMONE, GROWTH

[RELATIONSHIPS BETWEEN THYROTROPIN, GROWTH HORMONE AND INSULIN IN HYPOTHYROIDISM] Vergara Rodriguez J, De Los Monteros Mena AE, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 1021-31, Sep-Oct 76 (Spa) DL/77FEB1

[INTRAVENOUS AND ORAL GLUCOSE: PRODUCTION OF INSULIN AND GROWTH HORMONE IN THE NEWBORN INFANT] Dorantes Alvarez L, De Los Monteros Mena AE, Matus Seueira A, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 979-92, Sep-Oct 76 (Spa) DL/77FEB3

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerasi E *Diabete Metab* 1: 51-6, Mar 75 (Eng) DL/77FEB88

ESTIMATES OF THE KINETIC PARAMETERS OF GROWTH HORMONE METABOLISM IN FED AND FASTED CALVES AND SHEEP. Trenkle A *J Anim Sci* 43: 1035-43, Nov 76 (Eng) DL/77FEB153

CELL SURFACE RECEPTORS FOR INSULIN AND HUMAN GROWTH HORMONE. EFFECT OF MICROTUBULE AND MICROFILAMENT MODIFIERS. Van Obberghen E, De Meyts P, Roth J *J Biol Chem* 251: 6844-51, 10 Nov 76 (Eng) DL/77FEB161

GROWTH HORMONE AND INSULIN SECRETION. PP. 116-26. Bennett LL, Curry DL *Ino Picile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB180*

GROWTH HORMONE RELEASE IN HUNTINGTONS DISEASE. PP. 252-60. Podolsky S, Leopold NA *Ino Picile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB181*

HUMAN GROWTH HORMONE CHANGES WITH AGE. PP. 261-70. Bazzarre TL, Johanson AJ, Huseman CA, Varma MM, Blizzard *Ino Picile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB182*

IN VIVO AND IN VITRO ACTIONS OF SYNTHETIC PART SEQUENCES OF HUMAN PITUITARY GROWTH HORMONE. PP. 41-9. Bornstein J *Ino Picile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Ex-*

cerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB183

NEUROENDOCRINE CONTROL OF GROWTH HORMONE SECRETION: EXPERIMENTAL AND CLINICAL STUDIES. PP. 236-51. Liuzzi A, Panerai AE, Chiodini PG, Secchi C, Cocchi D, Botalla L, Silvestrini F, Muller EE *Ino Picile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB185*

SEROTONINERGIC CONTROL OF HUMAN GROWTH HORMONE SECRETION: THE ACTIONS OF L-DOPA AND 2-BROMO-ALPHA-ERGOCRYPTINE. PP. 222-35. Smythe GA, Compton PJ, Lazarus L *Ino Picile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB189*

STUDIES ON THE NATURE OF PLASMA GROWTH HORMONE. PP. 75-83. Ellis S, Grindeland RE, Reilly TJ, Yang SH *Ino Picile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB191*

PROPANOLOL EFFECT ON PLASMA GLUCOSE, FREE FATTY ACID, INSULIN, AND GROWTH HORMONE IN GRAVES DISEASE. Ortigosa JL, Mendoza F, Argote RM, Garcia G, Cervantes C, Parra A *Metabolism* 25: 1201-7, Nov 76 (Eng) DL/77FEB260

THE BIOLOGY OF GROWTH HORMONE. Kostoy JL, Reagan CR *Pharmacol Ther* [B] 2: 591-604, 1976 (Eng) [110] DL/77FEB362

[GROWTH HORMONE DETERMINATIONS IN CHILDREN WITH RHEUMATOID ARTHRITIS AND STILL'S SYNDROME (PROCEEDINGS)] Butenandt O, Eder R, Clados-Kelch A *Z Rheumatol* 35 suppl 4: suppl 47-53, 1976 (Ger) DL/77FEB445

GROWTH HORMONE IN EXERCISE: COMPARISON OF PHYSIOLOGICAL AND PHARMACOLOGICAL STIMULI. Sutton J, Lazarus L *Biochem J* 157: 523-7, 1 Sep 76 (Eng) DL/77FEB498

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL AND GROWTH HORMONE LEVELS IN YOUNG WEIGHT LIFTERS] Lukaszewska J, Biczowa B, Bobilewicz D, Wilk M, Obuchowicz-Fidels B *Endokrynol Pol* 27: 149-57, Mar-Apr 76 (Pol) *DL/77FEB549

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL, TESTOSTERONE AND GROWTH HORMONE LEVELS IN WEIGHT LIFTERS] Skierska E, Ustupka J, Biczowa B, Lukaszewska J *Endokrynol Pol* 27: 159-65, Mar-Apr 76 (Pol) *DL/77FEB550

MEAN 24-HOUR GROWTH HORMONE AND TESTOSTERONE CONCENTRATIONS IN RELATION TO PUBERTAL GROWTH SPURT IN BOYS WITH NORMAL OR DELAYED PUBERTY. Butenandt O, Eder R, Wohlfarth K, Bidingmaier F, Knorr D *Eur J Pediatr* 122: 85-92, 4 May 76 (Eng) *DL/77FEB551

INFLUENCE OF CHRONIC THYROTROPIN-RELEASING HORMONE INJECTIONS ON SECRETION OF PROLACTIN, THYROTROPIN AND GROWTH HORMONE AND ON GROWTH RATE IN WETHER LAMBS. Davis SL, Hill DM, Ohlson DL, Jacobs JA *J Anim Sci* 42: 1244-50, May 76 (Eng) *DL/77FEB566

ACUTE AND CHRONIC ESTROGEN EFFECTS UPON SERUM SOMATOMEDIN ACTIVITY, GROWTH HORMONE, AND PROLACTIN IN MAN. Wiedemann E, Schwartz E, Frantz AG *J Clin Endocrinol Metab* 42: 942-52, May 76 (Eng) *DL/77FEB577

DIET-INDUCED ALTERATIONS OF HIGH SECRETION IN MAN. Merimee TJ, Pulkkinen AJ, Burton CE *J Clin Endocrinol Metab* 62: 931-7, May 76 (Eng) *DL/77FEB578

HORMONE, GUT

CIRCADIAN PATTERN OF PROLACTIN AND GROWTH HORMONE LEVELS IN FEMALE RATS OF TWO STRAINS. Esber HJ, Kuo E, Bogden AE *Lab Anim Sci* 26: 186-9, Apr 76 (Eng) *DL/77FEB604

DOPAMINE AND INHIBITION OF PROLACTIN AND GROWTH-HORMONE SECRETION. Massara F, Camanni F, Belforte L, Molinatti GM *Lancet* 1: 913, 24 Apr 76 (Eng) *DL/77FEB606

HUMAN PITUITARY GROWTH HORMONE: RESTORATION OF FULL BIOLOGICAL ACTIVITY BY NONCOVALENT INTERACTION OF TWO FRAGMENTS OF THE HORMONE. Li CH, Bewley TA *Proc Natl Acad Sci USA* 73: 1476-9, May 76 (Eng) *DL/77FEB623

STRESS-INDUCED GROWTH HORMONE RELEASE: PSYCHOLOGIC AND PHYSIOLOGIC CORRELATES. Brown WA, Heninger G *Psychosom Med* 38: 145-7, Mar-Apr 76 (Eng) *DL/77FEB630

GROWTH HORMONE, CYCLIC NUCLEOTIDES AND THE RAPID CONTROL OF TRANSLATION IN HEART MUSCLE. Mowbray J, Davies JA, Bates DJ, Jones CJ *Biochem J* 152: 583-92, Dec 75 (Eng) *DL/77FEB712

HORMONE, GUT

KINETICS OF INSULIN SECRETION IN CHRONIC PANCREATITIS AND MILD MATURITY ONSET DIABETES. (EVIDENCE FOR GUT HORMONE ACTION BEYOND GLUCORECEPTOR AND CYCLIC ADENOSINE MONOPHOSPHATE MEDIATED INSULIN RELEASE). Botha JL, Vinik AI, Blake KC, Jackson WP *Eur J Clin Invest* 6: 365-72, 10 Sep 76 (Eng) DL/77FEB72

GUT HORMONES AND THE ALPHA CELL. Bloom SR, Iversen J *Metabolism* 25: 1457-8, Nov 76 (Eng) DL/77FEB297

HORMONE, HYPOTHALAMIC

ENDOCRINE AND EXTRA-ENDOCRINE STUDIES OF HYPOTHALAMIC HORMONES IN MAN. PP. 196-206. Kastin AJ, Schally AV, Ehrensing RH, Barbeau A *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function.* Basel, Karger, 1974. WL 312 165r 1973. (Eng) [44] *DL/77FEB590

HORMONE, HYPOTHALAMIC RELEASING

MECHANISM OF ACTION OF HYPOTHALAMIC RELEASING HORMONES. ROLE OF IONS IN THE RELEASE OF ADENOHYPOPHYSIAL HORMONES. PP. 207-15. Kraicer J *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function.* Basel, Karger, 1974. WL 312 165r 1973. (Eng) [18] *DL/77FEB591

HORMONE, LIPOTROPIC

MULTIPOTENT LIPOTROPIC HORMONES. IN SEARCH OF A PITUITARY CELL PRODUCING MULTIPOTENT LPH. Furth J, Chretien M, Lis M, Belanger A, Moy P, Grauman J *Arch Pathol* 99: 572-81, Nov 75 (Eng) *DL/77FEB710

HORMONE, MAMOTROPIC

MAMMOTROPIC HORMONES IN RUMINANTS. PP. 422-32. Forsyth IA, Hart IC *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides.* Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) [91] DL/77FEB184

HORMONE, MELANOPHORE STIMULATING

METABOLIC REQUIREMENTS FOR MELANOPHORE-STIMULATING HORMONE (MSH) SECRETION. Hadley ME, Bower SA *Gen Comp Endocrinol* 28: 118-30, Feb 76 (Eng) *DL/77FEB558

HORMONE, PITUITARY

PLASMA LEVELS OF FRACTIONATED ESTROGENS AND PITUITARY HORMONES IN ENDOMETRIAL CARCINOMA. Benjamin F, Deutsch S *Am J Obstet Gynecol* 126: 638-47, 15 Nov 76 (Eng) DL/77FEB470

HORMONE RECEPTOR

HORMONAL REGULATION OF THE AFFINITY AND CONCENTRATION OF HORMONE RECEPTORS IN TARGET CELLS. DeMeys P, Kahn CR, Roth J, Bar RS *Metabolism* 25: 1365-70, Nov 76 (Eng) DL/77FEB275

HORMONE, SOMATOTROPIC

[RADIOIMMUNOLOGIC DETERMINATION OF STH, INSULIN, AND C-PEPTIDE. INDICATION, FUNCTIONAL TESTS, INTERPRETATION OF THE FINDINGS] Schroder KE, Raptis S, Beischer W *Med Welt* 27: 1720-5, 10 Sep 76 (Ger) DL/77FEB257

KINETICS OF PROTEIN SYNTHESIS AND RELEASE IN THE STH-CELL OF THE MOUSE ANTERIOR PITUITARY AS REVEALED BY ELECTRON MICROSCOPIC AUTORADIOGRAPHY OF 3H-AMINO ACIDS. Hiura M, Komatsu M, Fujita H *Arch Histol Jpn* 38: 347-57, Feb 76 (Eng) *DL/77FEB709

HORMONE, THYROTROPE

[LOW THYROTROPE HORMONE: A NEW ENTITY] Berthezene F, Paffoy JC, Escallier A, Bizollon C, Mornex R *Nouv Presse Med* 5: 2138-40, 9 Oct 76 (Fre) DL/77FEB343

HORMONE, TROPIC

LETTER: EFFECT OF ALCOHOL ON ANTERIOR-PITUITARY SECRETION OF TROPIC HORMONES. Ylikahri RH, Huttunen MO, Harkonen M *Lancet* 1: 1353, 19 Jun 76 (Eng) *DL/77FEB608

HOSPITAL ADMISSION

COMPARISON OF HOSPITAL ADMISSIONS FOR CEREBROVASCULAR DISEASE IN MICHIGAN AND NORTH CAROLINA. Wylie CM, Carpenter JO *J Community Health* 2: 21-30, Fall 76 (Eng) DL/77FEB170

HOSPITAL POPULATION

[FATTY LIVER IN A HOSPITAL POPULATION, 1970-1974] Haagsma B, Marck K, van der Woude FJ *Ned Tijdschr Geneesk* 120: 1625-30, 25 Sep 76 (Dut) DL/77FEB328

HUMAN LEUCOCYTE ANTIGEN

HLA AND JUVENILE DIABETES MELLITUS IN THE JAPANESE [LETTER]. Wakisaka A, Aizawa M, Matsuura N, Nakagawa S, Nakayama E *Lancet* 2: 970, 30 Oct 76 (Eng) DL/77FEB249

[HL-A SYSTEM AND DIABETES MELLITUS] Scherthaner G, Ludwig H, Eibl M, Erd W, Pacher M, Mayr WR *Schweiz Med Wochenschr* 106: 514-7, 10 Apr 76 (Ger) DL/77FEB394

HUNGARIAN

[CLINICAL EXPERIENCE WITH THE NEW HUNGARIAN GLIBENCLAMIDE PRODUCT (GILEMAL)] Bela P, Miklos G *Orv Hetil* 117: 2792-4, 14 Nov 76 (Hun) DL/77FEB335

HUNTINGTONS CHOREA

[FATTY ACID PATTERNS AND GLUCOSE TOLERANCE IN HUNTINGTONS CHOREA (AUTHORS TRANSL)] Schubotz R, Hausmann L, Kaffarnik H, Zehner J, Oepen H *Res Exp Med (Berl)* 167: 203-15, 2 Jul 75 (Ger) DL/77FEB376

HUNTINGTONS DISEASE

GROWTH HORMONE RELEASE IN HUNTINGTONS DISEASE. PP. 252-60. Podolsky S, Leopold NA *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides.* Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB181

HYDROCORTISONE

[ANTAGONISM IN THE ACTION OF HYDROCORTISONE AND INSULIN IN VIVO ON ENZYMES OF PYRUVATE AND MALATE METABOLISM IN ADIPOSE TISSUE] Ilin VS, Vasileva LE, Tokhadze OG *Biokhimiia* 41: 1646-50, Sep 76 (Rus) DL/77FEB12

HYDROLYSIS, PROTEIN

[PROTEIN HYDROLYSIS BY IMMOBILIZED ENZYMES] Lasch J, Koelsch R, Roth P, Gabert A, Marquardt I, Hanson H *Acta Biol Med Ger* 35: 735-43, 1976 (Ger) DL/77FEB452

HYDROPHILIC

SYNTHESIS OF SOME BETA-O-GLUCOPYRANOSIDES HAVING A HYDROPHOBIC AGLYCON GROUP TERMINATED WITH A HYDROPHILIC GROUP. Bhattacharyya BR, Ramaswamy K, Crane RK *Carbohydr Res* 47: 167-71, Mar 76 (Eng) *DL/77FEB530

HYDROPHOBIC AGLYCON GROUP

SYNTHESIS OF SOME BETA-O-GLUCOPYRANOSIDES HAVING A HYDROPHOBIC AGLYCON GROUP TERMINATED WITH A HYDROPHILIC GROUP. Bhattacharyya BR, Ramaswamy K, Crane RK *Carbohydr Res* 47: 167-71, Mar 76 (Eng) *DL/77FEB530

HYDROXYLASE, AROMATIC

EFFECT OF DIETARY SUBSTITUTION OF SUCROSE AND ITS CONSTITUENT MONOSACCHARIDES ON THE ACTIVITY OF AROMATIC HYDROXYLASE AND THE LEVEL OF CYTOCHROME P-450 IN HEPATIC MICROSOMES OF GROWING RATS. Basu TK, Dickerson JW, Parke DV *Nutr Metab* 18: 302-9, 1975 (Eng) *DL/77FEB614

HYPBRID

INBRED MICE AND THEIR HYPBRIDS AS AN ANIMAL MODEL FOR ATHEROSCLEROSIS RESEARCH. Roberts A, Thompson JS *Adv Exp Med Biol* 67: 313-327, 1976 (Eng) *DL/77FEB695

HYPERALIMENTATION

HYPERALIMENTATION IN THE MANAGEMENT OF CHRONIC INFLAMMATORY INTESTINAL DISEASE. Dean RE, Campos MM, Barrett B *Dis Colon Rectum* 19: 601-4, Oct 76 (Eng) DL/77FEB62

Diabetes Literature—Keyword Index

HYPERCALORIC

[TRANSPORT OF FREE FATTY ACIDS AND ENERGY METABOLISM DURING HYPO- AND HYPERCALORIC FORMULA DIETS] Schonborn J, Dadrich E, Rabast U, Kasper H *Verh Dtsch Ges Inn Med* 81: 1402-5, 1975 (Ger) *DL/77FEB685

HYPERGLUCAGONEMIA

HYPERINSULINEMIA AND HYPERGLUCAGONEMIA FOLLOWING PANCREATIC ISLET TRANSPLANTATION IN DIABETIC RATS. Weber CJ, Hardy MA, Lerner RL, Felig P, Reemtsma K *Diabetes* 25: 944-8, Oct 76 (Eng) DL/77FEB101

EVANESCENT EFFECTS OF HYPO- AND HYPERGLUCAGONEMIA ON BLOOD GLUCOSE HOMEOSTASIS. Sherwin R, Wahren J, Felig P *Metabolism* 25: 1381-3, Nov 76 (Eng) DL/77FEB278

HYPERGLYCEMIA

REACTIVE HYPERGLYCEMIA IN PATIENTS WITH ACUTE STROKE. Melamed E *J Neurol Sci* 29: 267-75, Oct 76 (Eng) DL/77FEB200

HYPERGLYCEMIA AND HYPOGLYCEMIA DURING PREGNANCY [EDITORIAL]. Anonymous *Lancet* 2: 889-90, 23 Oct 76 (Eng) DL/77FEB246

HYPERGLYCEMIA AND DIABETES MELITUS. Jarrett RJ, Keen H *Lancet* 2: 1009-12, 6 Nov 76 (Eng) DL/77FEB250

DIABETIC POLYNEUROPATHY: THE IMPORTANCE OF INSULIN DEFICIENCY, HYPERGLYCEMIA AND ALTERATIONS IN MYOINOSITOL METABOLISM IN ITS PATHOGENESIS. Winegrad AI, Greene DA *N Engl J Med* 295: 1416-21, 16 Dec 76 (Eng) DL/77FEB326

INDUCTION OF GLYCOSURIA AND HYPERGLYCEMIA BY TOPICAL CORTICOSTEROID THERAPY. Gomez EC, Frost P *Arch Dermatol* 112: 1559-62, Nov 76 (Eng) DL/77FEB489

HYPERGLYCEMIA, URETHANE-INDUCED

URETHANE-INDUCED HYPERGLYCEMIA IN RATS. Krzemien K, Lipowska-Zabawska L *Acta Physiol Pol* 27: 369-76, Jul-Aug 76 (Eng) DL/77FEB458

HYPERINSULINEMIA

HYPERINSULINEMIA AND HYPERGLUCAGONEMIA FOLLOWING PANCREATIC ISLET TRANSPLANTATION IN DIABETIC RATS. Weber CJ, Hardy MA, Lerner RL, Felig P, Reemtsma K *Diabetes* 25: 944-8, Oct 76 (Eng) DL/77FEB101

HYPERLIPIDEMIC PATIENT

STEROL BALANCE IN HYPERLIPIDEMIC PATIENTS AFTER DIETARY EXCHANGE OF CARBOHYDRATE FOR FAT. Ahrens EH Jr *J Lipid Res* 17: 97-106, Mar 76 (Eng) *DL/77FEB595

HYPERLIPOPROTEINEMIA

RABBITS AS A MODEL FOR THE STUDY OF HYPERLIPOPROTEINEMIA AND ATHEROSCLEROSIS. Shore B, Shore V *Adv Exp Med Biol* 67: 123-41, 1976 (Eng) *DL/77FEB693

HYPEROSMOLARITY

[COMA CAUSED BY HYPEROSMOLARITY] Morin C, Bernier J *Union Med Can* 105: 1174-80, Aug 76 (Fre) DL/77FEB422

HYPERPLASIA, PINEAL

PREMATURE ERUPTION AND MACRODON- TIA ASSOCIATED WITH INSULIN RESISTANT DIABETES AND PINEAL HYPERPLASIA. REPORT OF TWO CASES. Holmes J, Tanner MS *Br Dent J* 141: 280-4, 2 Nov 76 (Eng) DL/77FEB4

HYPERPOLARIZATION

THE POTENTIATING INFLUENCES OF INSULIN ON PANCREOZYMIN-INDUCED HYPERPOLARIZATION AND AMYLASE RELEASE IN THE PANCREATIC ACINAR CELL. Kanno T, Saito A *J Physiol (Lond)* 261: 505-21, Oct 76 (Eng) DL/77FEB213

HYPERTENSION

DETERIORATION IN GLUCOSE TOLERANCE FOLLOWING PROLONGED DIURETIC TREATMENT FOR HYPERTENSION [PROCEEDINGS]. Lewis PJ, Dollery CT, Kohner EM, Petrie A *Br J Clin Pharmacol* 2: 375p, Aug 75 (Eng) DL/77FEB5

PLASMA RENIN ACTIVITY AND HYPERTENSION IN DIABETES MELITUS. Christlieb AR, Kaldany A, Delia JA *Diabetes* 25: 969-74, Oct 76 (Eng) DL/77FEB105

[RELATIONSHIP BETWEEN HORMONE CONCENTRATION IN PERIPHERAL BLOOD IN HYPERTENSION, ARTERIOSCLEROSIS AND OBESITY] Kokina LP, Lyskova MN, Tkacheva GA, Gabunia RI, Syzgantseva LM *Ter Arkh* 48: 81-4, 1976 (Rus) DL/77FEB410

INSULIN KINETIC, GLUCOSE TOLERANCE, AND LIPID METABOLISM IN GENETICALLY SPONTANEOUS-HYPERTENSIVE RATS. Baumann R, Moritz V, Godicke W, Postnow JW, Ziegler M *Acta Biol Med Ger* 35: k 33-9, 1976 (Eng) DL/77FEB451

HYPERTHERMIA

THE EFFECT OF HYPERTHERMIA UPON OXYGEN CONSUMPTION AND UPON ORGANIC PHOSPHATES, GLYCOLYTIC METABOLITES, CITRIC AND CYCLE INTERMEDIATES AND ASSOCIATED AMINO ACIDS IN RAT CEREBRAL CORTEX. Carlsson C, Hagerdal M, Siesjo BK *J Neurochem* 26: 1001-6, May 76 (Eng) *DL/77FEB599

HYPERTHYROIDISM

IMPAIRED PLASMA INSULIN RESPONSE TO ARGININE IN HYPERTHYROIDISM. IMPORTANT ROLE OF THE RISE OF BLOOD GLUCOSE IN THE SECOND PHASE OF INSULIN RELEASE INDUCED BY ARGinine. Imura H, Seino Y, Ikeda M, Taminato T, Miyamoto Y *Diabetes* 25: 961-8, Oct 76 (Eng) DL/77FEB104

HYPERTHYROXINEMIA

[THE BEHAVIOR OF LIPOPROTEINS, CHOLESTEROL, TRIGLYCERIDES, FREE FATTY ACIDS AND FREE GLYCEROL IN SERUM OF RATS WITH EXPERIMENTAL HYPERTHYROXINEMIA AND HYPOTHYREOSIS] Hubner G, Renner K, Rauer G *Endokrinologie* 67: 60-6, Mar 67 (Ger) *DL/77FEB548

HYPOGLYCEMIA

HYPERTRIGLYCERIDEMIA, ENDOGENOUS

THE METABOLIC FATE OF PLASMA LIPOPROTEINS IN NORMAL SUBJECTS AND IN PATIENTS WITH INSULIN RESISTANCE AND ENDOGENOUS HYPERTRIGLYCERIDAEMIA. Kissebah AH, Alfarsi S, Adams PW, Wynn V *Diabetologia* 12: 501-9, Oct 76 (Eng) DL/77FEB119

HYPOCHOLESTEROLEMIA

CENTRALLY MEDIATED HYPOCHOLESTEROLAEMIC RESPONSE OF INSULIN IN DOGS. Barthwal KC, Singh KN, Bapat V, Bapat SK *Indian J Physiol Pharmacol* 20: 136-40, Jul-Sep 76 (Eng) DL/77FEB150

HYPOGLYCEMIA

HYPOGLYCEMIA IN CHILDREN UNDERGOING OPERATIONS [LETTER]. Simpson JC *Br Med J* 2: 758, 25 Sep 76 (Eng) DL/77FEB25

BLOOD GLUCOSE MONITORING IN SYMPTOMATIC HYPOGLYCEMIA. Cole RA, Benedict GW, Margolis S, Kowarski A *Diabetes* 25: 984-8, Oct 76 (Eng) DL/77FEB108

HYPOGLYCEMIA AND HYPOINSULINEMIA ASSOCIATED WITH HEPATOMA IN A DOG. Strombeck DR, Krum S, Meyer D, Kappesser RM *J Am Vet Med Assoc* 169: 811-2, 15 Oct 76 (Eng) DL/77FEB152

[GIANT TUMOR OF THE MEDIASTINUM ASSOCIATED WITH HYPOGLYCEMIA: STUDY OF HYPOGLYCEMIA CAUSED BY EXTRA-PANCREATIC TUMOR] Ishikawa S, Suzuki R, Onishi T *Jpn Assoc Thorac Surg* 24: 967-75, Jul 76 (Jpn) DL/77FEB194

THE SUGAR CONNECTION. REACTIVE HYPOGLYCEMIAS AND IMMUNOREACTIVE INSULIN ASSAY. Shah S *J Kans Med Soc* 77: 494, 516, Nov 76 (Eng) DL/77FEB196

DRUG INDUCED HYPOGLYCEMIA AND HYPOTHERMIA. Carter WP Jr *J Maine Med Assoc* 67: 272, 279, Sep 76 (Eng) DL/77FEB197

THE MECHANISM OF HYPOGLYCEMIA DUE TO SEMISTARVATION IN THE RAT. Cacs C *J Nutr* 106: 1557-61, Nov 76 (Eng) DL/77FEB202

HYPERGLYCEMIA AND HYPOGLYCEMIA DURING PREGNANCY [EDITORIAL]. Anonymous *Lancet* 2: 889-90, 23 Oct 76 (Eng) DL/77FEB246

[LEUCINE-SENSITIVE HYPOGLYCEMIA AND ITS TREATMENT WITH DIAZOXIDE (AUTHORS TRANSL)] Reich H, Schunke W *Monatsschr Kinderheilkd* 129: 673-6, Sep 76 (Ger) DL/77FEB321

METHYLMALONIC ACIDURIA AND HYPOGLYCEMIA [LETTER]. Garnica A, Desrosiers P, Sargent T *N Engl J Med* 295: 1136-7, 11 Nov 76 (Eng) DL/77FEB323

[ROLE OF PERHEXILINE MALEATE AND BETA BLOCKING AGENTS IN THE DEVELOPMENT OF SEVERE HYPOGLYCEMIA (LETTER)] Sudre Y, Becq-Giraudon B, Pouget-Abadie JF, Demange J, Boutaud PH *Nouv Presse Med* 5: 1999, 25 Sep 76 (Fre) DL/77FEB341

[HYPOGLYCEMIA (AUTHORS TRANSL)] Uebbersax R, Jeannonod D, Meyrat CA *Praxis* 65: 504-9, 27 Apr 76 (Fre) DL/77FEB354

HYPOGLYCEMIA: THE UNDISCLOSED. Blonde L, Riddick FA Jr *South Med J* 69: 1261-5, Oct 76 (Eng) DL/77FEB402

[BETA RECEPTOR BLOCKING AGENTS, INSULIN AND HYPOGLYCEMIA] Froland A *Ugeskr Laeger* 138: 2970, 15 Nov 76 (Dan) DL/77FEB420

HYPOGLYCEMIA, DRUG INDUCED

SOME NEW ASPECTS ON THE INTERACTION OF HYPOGLYCEMIAPRODUCING BIGUANIDES WITH BIOLOGICAL MEMBRANES. Schafer G *Biochem Pharmacol* 25: 2015-24, 15 Sep 76 (Eng) DL/77FEB512

HYPOGLYCEMIA, DRUG INDUCED

[DRUG-INDUCED HYPOGLYCEMIA IN DIABETIC PATIENTS] Gay G, Debyr G *Nouv Presse Med* 5: 2156-8, 9 Oct 76 (Fre) DL/77FEB344

HYPOGLYCEMIA, INSULIN

[INSULIN HYPOGLYCEMIA DURING TREATMENT OF DIABETES MELLITUS IN CHILDREN] Jokanovic R, Nikezic M *Srp Arh Celok Lek* 104: 49-56, Jan 76 (Ser) DL/77FEB404

HYPOGLYCEMIA, NEONATAL

[NEONATAL HYPOGLYCEMIA FOLLOWING BETA BLOCKER TREATMENT IN PREGNANCY] Forthoft B, Jacobsen JR *Ugeskr Laeger* 138: 2958-9, 15 Nov 76 (Dan) DL/77FEB419

HYPOGLYCEMIC

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL.)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77FEB83

[HYPOGLYCEMIC MEDICATIONS AND VASCULAR COMPLICATIONS OF DIABETES MELLITUS. CURRENT CONTROVERSY] Lubetzki J *Rev Prat* 26: 3173-83, 11 Oct 76 (Fre) DL/77FEB388

HYPOGLYCEMIC AGENT

[ORAL THERAPY OF DIABETES MELLITUS BY COMBINATION OF HYPOGLYCEMIC AGENTS] Grujic M, Perinovic M, Rizvanbegovic B *Med Arh* 30: 167-71, May-Jun 76 (Ser) DL/77FEB238

HYPOGLYCEMIC AGENT, ORAL

CLINICAL USE OF ORAL HYPOGLYCEMIC AGENTS. Hagg SA *Am J Hosp Pharm* 33: 943-7, Sep 76 (Eng) [60] DL/77FEB467

HYPOINSULINEMIA

HYPOGLYCEMIA AND HYPOINSULINEMIA ASSOCIATED WITH HEPATOMA IN A DOG. Strombeck DR, Krum S, Meyer D, Kappesser RM *J Am Vet Med Assoc* 169: 811-2, 15 Oct 76 (Eng) DL/77FEB152

HYPOMAGNESEMIA

EFFECT OF POTASSIUM AND HYPOMAGNESEMIA ON INSULIN IN THE BOVINE. Lentz DE, Madsen FC, Miller JK, Hansard SL *J Anim Sci* 43: 1082-7, Nov 76 (Eng) DL/77FEB154

HYPOPHYSEAL

EVIDENCE FOR A HYPOPHYSEAL FACTOR THAT STIMULATES INSULIN SECRETION BY THE PANCREAS (INSULOTROPHINE) Chieri RA, Basabe JC, Farina JM *Horm Metab Res* 8: 329-32, Sep 76 (Eng) DL/77FEB137

HYPOPHYSEAL ADRENAL CORTEX SYSTEM

[FUNCTIONAL ORGANIZATION OF THE HYPOTHALAMUS IN REGULATION OF THE HYPOPHYSEAL-ADRENOCORTICAL SYSTEM] Filaretov AA, Vasilevskaia LV *Dokl Akad Nauk SSSR* 227: 1018-20, 1976 (Rus) *DL/77FEB546

[ROLE OF DIFFERENT REGIONS OF THE HYPOTHALAMUS IN REGULATING THE HYPOPHYSEAL-ADRENAL CORTEX SYSTEM IN RATS] Konovalova LK *Probl Endokrinol (Mosk)* 22: 58-62, 1976 (Rus) *DL/77FEB622

HYPOPHYSECTOMY

EFFECT OF HYPOPHYSECTOMY AND INSULIN ON LIPOGENESIS IN COCKERELS. Kompang IP, Gibson WR *Horm Metab Res* 8: 340-5, Sep 76 (Eng) DL/77FEB138

EFFECTS OF HYPOPHYSECTOMY ON ALLOXAN-DIABETIC, ARTERIOSCLEROTIC, BREEDER VS. NON-ARTERIOSCLEROTIC, VIRGIN RATS. Wexler BC *Atherosclerosis* 25: 13-30, Oct 76 (Eng) DL/77FEB515

THE HORMONAL RESTORATION OF THE INTRINSIC CONTRACTILE FUNCTION OF THE ATROPHIC HEARTS OF HYPOPHYSECTOMIZED RATS. Korecky B, Taichman GC, Minelli R, Beznak M *Recent Adv Stud Cardiac Struct Metab* 1: 71-80, 1972 (Eng) *DL/77FEB651

HYPOPHYSIS

INFLUENCE OF THE HYPOPHYSIS ON MITOCHONDRIAL PROTEIN SYNTHESIS. de Favelukes SS, de Tarlovsky MS, Bedetti CD, Stoppani AO *Acta Physiol Lat Am* 25: 107-11, 1975 (Eng) *DL/77FEB688

HYPOPITUITARY CELL

STUDIES OF HUMAN DIPLOID FIBROBLAST GROWTH. I. RESPONSES OF NORMAL AND HYPOPITUITARY CELLS TO FIBROBLAST GROWTH FACTOR, INSULIN, AND SERUM. Jones KL, Addison J *J Clin Endocrinol Metab* 43: 721-9, Oct 76 (Eng) DL/77FEB166

HYPOTHALAMIC HORMONE

ENDOCRINE AND EXTRA-ENDOCRINE STUDIES OF HYPOTHALAMIC HORMONES IN MAN. PP. 196-206. Kastin AJ, Schally AV, Ehrensing RH, Barbeau A *In0 Lederis K, Cooper KE, ed. Recent studies of hypothalamic function.* Basel, Karger, 1974. WL 312 165r 1973. (Eng) [44] *DL/77FEB590

HYPOTHALAMIC INHIBITING HORMONE

CONTROL OF GONADOTROPIN AND PROLACTIN SECRETION BY HYPOTHALAMIC RELEASING AND INHIBITING HORMONES. PP. 80-9. McCann SM, Cooper K, Harms PG, Libertun C, Negro-Vilar A, Ojeda SR, Orias R, Moss RL, Fawcett CP, Krulich L, Gilon C, Amoss M, Rivier C, Ling N, Burgus R, Guillemin R *In0 Lederis K, Cooper KE, ed. Recent studies of hypothalamic function.* Basel, Karger, 1974. WL 312 165r 1973. (Eng) *DL/77FEB589

HYPOTHALAMIC PEPTIDE

CONTROL OF ANTERIOR PITUITARY HORMONE SECRETION. HYPOTHALAMIC PEPTIDES AND THEIR INTERACTIONS. PP. 180-95. Grant G, Vale W, Brazeau P, Rivier J, Monahan M, Gilon C, Amoss M, Rivier C, Ling

N, Burgus R, Guillemin R *In0 Lederis K, Cooper KE, ed. Recent studies of hypothalamic function.* Basel, Karger, 1974. WL 312 165r 1973. (Eng) [39] *DL/77FEB588

HYPOTHALAMIC RELEASING HORMONE

CONTROL OF GONADOTROPIN AND PROLACTIN SECRETION BY HYPOTHALAMIC RELEASING AND INHIBITING HORMONES. PP. 80-9. McCann SM, Cooper K, Harms PG, Libertun C, Negro-Vilar A, Ojeda SR, Orias R, Moss RL, Fawcett CP, Krulich L, Gilon C, Amoss M, Rivier C, Ling N, Burgus R, Guillemin R *In0 Lederis K, Cooper KE, ed. Recent studies of hypothalamic function.* Basel, Karger, 1974. WL 312 165r 1973. (Eng) *DL/77FEB589

MECHANISM OF ACTION OF HYPOTHALAMIC RELEASING HORMONES. ROLE OF IONS IN THE RELEASE OF ADENOPHYSPHICAL HORMONES. PP. 207-15. Kraicer J *In0 Lederis K, Cooper KE, ed. Recent studies of hypothalamic function.* Basel, Karger, 1974. WL 312 165r 1973. (Eng) [18] *DL/77FEB591

HYPOTHALAMUS

FUNCTION OF THE HYPOTHALAMUS AND CLINICAL ASPECTS. Laszlo F *Ther Hung* 24: 43-9, 1976 (Eng) DL/77FEB411

[FUNCTIONAL ORGANIZATION OF THE HYPOTHALAMUS IN REGULATION OF THE HYPOPHYSEAL-ADRENOCORTICAL SYSTEM] Filaretov AA, Vasilevskaia LV *Dokl Akad Nauk SSSR* 227: 1018-20, 1976 (Rus) *DL/77FEB546

[ROLE OF DIFFERENT REGIONS OF THE HYPOTHALAMUS IN REGULATING THE HYPOPHYSEAL-ADRENAL CORTEX SYSTEM IN RATS] Konovalova LK *Probl Endokrinol (Mosk)* 22: 58-62, 1976 (Rus) *DL/77FEB622

HYPOTHERMIA

DRUG INDUCED HYPOGLYCEMIA AND HYPOTHERMIA. Carter WP Jr *J Maine Med Assoc* 67: 272, 279, Sep 76 (Eng) DL/77FEB197

DRUG MODIFICATION OF HYPOTHERMIA INDUCED BY CNS GLUCOPENIA IN THE MOUSE. Mager M, Robinson S, Freinkel N *Biochem J* 157: 559-64, 1 Sep 76 (Eng) DL/77FEB499

HYPOTHESIS

CONTROL OF HEPATIC PROLIFERATION: A WORKING HYPOTHESIS INVOLVING HORMONES, LIPOPROTEINS, AND NOVEL NUCLEOTIDES. Koch KS, Leffert HL *Metabolism* 25: 1419-22, Nov 76 (Eng) DL/77FEB287

HYPOTHYREOSIS

[THE BEHAVIOR OF LIPOPROTEINS, CHOLESTEROL, TRIGLYCERIDES, FREE FATTY ACIDS AND FREE GLYCEROL IN SERUM OF RATS WITH EXPERIMENTAL HYPERTHYROIDISM AND HYPOTHYREOSIS] Hubner G, Renner K, Rauer G *Endokrinologie* 67: 60-6, Mar 67 (Ger) *DL/77FEB548

HYPOTHYROIDISM

[RELATIONSHIPS BETWEEN THYROTROPIN, GROWTH HORMONE AND INSULIN IN HYPOTHYROIDISM] Vergara Rodriguez J, De Los Monteros Mena AE, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 1021-31, Sep-Oct 76 (Spa) DL/77FEB1

HYPOTROPHY

STUDIES ON EXPERIMENTAL HYPOTROPHY IN THE RAT. III. PLASMA INSULIN AND GLUCAGON. Girard JR, Chanez C, Kervran A, Tordet-Caridroit C, Assan R *Biol Neonate* 29: 262-6, 1976 (Eng) DL/77FEB13

HYPOXIA

ADRENAL AND PANCREATIC ENDOCRINE RESPONSES TO HYPOXIA IN THE CONSCIOUS CALF. Bloom SR, Edwards AV, Hardy RN, Silver M *J Physiol (Lond)* 261: 271-83, Oct 76 (Eng) DL/77FEB212

INFLUENCE OF FREE FATTY ACIDS ON MYOCARDIAL MECHANICS AND OXYGEN CONSUMPTION IN RAT PAPILLARY MUSCLES AND PERFUSED HEARTS, UNDER OXYGENATED AND HYPOXIC CONDITIONS. Henderson AH, Sonnenblick EH *Recent Adv Stud Cardiac Struct Metab* 1: 147-62, 1972 (Eng) *DL/77FEB636

UTILIZATION OF ENDOGENOUS LIPIDS AND GLYCOGEN IN THE PERFUSED RAT HEART: EFFECTS OF HYPOXIA AND EPINEPHRINE. Crass MF 3d, Shipp JC, Pieper GM *Recent Adv Stud Cardiac Struct Metab* 7: 219-24, 1975 (Eng) *DL/77FEB661

MYOCARDIAL SUBSTRATE UPTAKE IN MEN DURING EXERCISE UNDER HYPOXIC CONDITIONS. Keul J, Doll E *Recent Adv Stud Cardiac Struct Metab* 7: 261-6, 1975 (Eng) *DL/77FEB667

MYOCARDIAL SUBSTRATE LEVELS IN VIVO DURING HYPOXIA OF VARIOUS DEGREES AND DURATION. Weissel M, Turnheim K *Recent Adv Stud Cardiac Struct Metab* 7: 275-82, 1975 (Eng) *DL/77FEB669

THE ROLE OF LINOLEIC ACID IN HYPOXIA-INDUCED CHANGES OF THE ACTION POTENTIALS AND THE FORCE OF CONTRACTION OF ISOLATED PAPILLARY MUSCLES OF THE GUINEA PIG. Ravens KG, Ravens U *Recent Adv Stud Cardiac Struct Metab* 7: 289-95, 1975 (Eng) *DL/77FEB671

HYPOXIA, PERINATAL

CEREBRAL LESIONS OF MATURE NEWBORN DUE TO PERINATAL HYPOXIA. II. MOTHERS DISEASES. Nyka WM Z *Geburtshilfe Perinatol* 180: 295-9, Aug 76 (Eng) DL/77FEB440

IDENTITY, DIABETIC

THE DEVELOPING DIABETIC IDENTITY: A STUDY OF FAMILY INFLUENCE. Benoliel JQ *Commun Nurs Res* 3: 14-32, Sep 70 (Eng) DL/77FEB56

CRITIQUE OF THE DEVELOPING DIABETIC IDENTITY: A STUDY OF FAMILY INFLUENCE. Gunter LM *Commun Nurs Res* 3: 33-40, Sep 70 (Eng) DL/77FEB57

IDIOPATHIC HEMOCHROMATOSIS

A STUDY OF PITUITARY FUNCTION IN PATIENTS WITH IDIOPATHIC HEMOCHROMATOSIS. Walsh CH, Wright AD, Williams JW, Holder G *J Clin Endocrinol Metab* 43: 866-72, Oct 76 (Eng) DL/77FEB169

ILEUS

MECONIUM ILEUS EQUIVALENT IN ADULTS WITH CYSTIC FIBROSIS OF PANCREAS: A REPORT OF SIX CASES. Hodson ME, Mearns MB, Batten JC *Br Med J* 2: 790-1, 2 Oct 76 (Eng) DL/77FEB27

ILLNESS

NEUROENDOCRINE STUDIES OF DEPRESSIVE ILLNESS. Sachar EJ, Roffwarg HP, Gruen PH, Altman N, Sassin J *Pharmakopsychiatr Neuropsychopharmacol* 9: 11-7, Jan 76 (Eng) DL/77FEB363

IMMUNOHISTOLOGY

HISTOLOGIC CHARACTERISTICS OF INSULINOMAS AND GASTRINOMAS. VALUE OF ARGYROPHILIA, METACHROMASIA, IMMUNOHISTOLOGY, AND ELECTRON MICROSCOPY FOR THE IDENTIFICATION OF GASTROINTESTINAL AND PANCREATIC ENDOCRINE CELLS AND THEIR TUMORS. Woodtli W, Hedinger C *Virchows Arch (Pathol Anat)* 371: 331-50, 7 Oct 76 (Eng) DL/77FEB425

IMMUNOLOGICAL PROCEDURE

A RAPID IMMUNOLOGICAL PROCEDURE FOR THE ISOLATION OF HORMONALLY SENSITIVE RAT FAT-CELL PLASMA MEMBRANE. Luzio JP, Newby AC, Hales CN *Biochem J* 154: 11-21, 15 Jan 76 (Eng) *DL/77FEB714

IMMUNOLOGY

STRUCTURE-FUNCTION RELATIONSHIP: IMMUNOLOGIC. Heding LG, Frandsen EK, Jacobsen H *Metabolism* 25: 1327-9, Nov 76 (Eng) DL/77FEB267

IMMUNOREACTIVE

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabetes Metab* 1: 7-11, Mar 75 (Eng) DL/77FEB90

ELEVATED GUT GLUCAGON-LIKE IMMUNOREACTIVE MATERIAL IN HUMAN AND EXPERIMENTAL DIABETES AND ITS SUPPRESSION BY SOMATOSTATIN. Wider MD, Matsuyama T, Dunbar JC, Foa PP *Metabolism* 25: 1487-9, Nov 76 (Eng) DL/77FEB306

STIMULATION OF PANCREATIC IMMUNOREACTIVE SOMATOSTATIN (IRS) RELEASE BY GLUCAGON [PROCEEDINGS]. Patton GS, Dobbs R, Orci L, Vale W, Unger RH *Metabolism* 25: 1499, Nov 76 (Eng) DL/77FEB308

IMMUNOREACTIVE GLUCAGON

IMMUNOREACTIVE GLUCAGONS IN PANCREATIC ISLETS. Tager HS, Markese J *Metabolism* 25: 1343-6, Nov 76 (Eng) DL/77FEB270

HETEROGENEITY OF PLASMA IMMUNOREACTIVE GLUCAGON. Valverde I, Villanueva ML *Metabolism* 25: 1393-5, Nov 76 (Eng) DL/77FEB281

CONTROL OF PANCREATIC IRG SECRETION IN VIVO. Gerich JE *Metabolism* 25: 1437-41, Nov 76 (Eng) [13] DL/77FEB292

IMMUNOREACTIVE GLUCAGON RESPONSES TO ARGININE IN THREE PANCREATECTOMIZED HUMANS. Palmer JP, Werner PL, Benson JW, Ensink JW *Metabolism* 25: 1483-5, Nov 76 (Eng) DL/77FEB305

THE EFFECTS OF ACUTE AND CHRONIC INSULIN ADMINISTRATION ON PLASMA IRG LEVELS IN HUMAN DIABETES. Raskin P, Aydin I, Unger RH *Metabolism* 25: 1531-3, Nov 76 (Eng) DL/77FEB317

IMMUNOREACTIVE INSULIN

THE SUGAR CONNECTION. REACTIVE HYPOGLYCEMIAS AND IMMUNOREACTIVE INSULIN ASSAY. Shah S *J Kans Med Soc* 77: 494, 516, Nov 76 (Eng) DL/77FEB196

BEHAVIOUR OF SERUM CONCENTRATIONS OF GLUCOSE, IMMUNOREACTIVE INSULIN AND POTASSIUM IONS IN NEWBORNS AFTER LONG TERM OR CRASH TREATMENTS WITH PARTUSISTEN OR PARTUSISTEN IN COMBINATION WITH ISOPTIN (AUTHORS TRANSL.) Weidinger H, Mohr D, Haller K, Hiltmann WD, Vogel M Z *Geburtshilfe Perinatol* 180: 258-65, Aug 76 (Ger) DL/77FEB439

IMMUNOREACTIVITY

HUMAN C-PEPTIDE IMMUNOREACTIVITY (CPR) IN BLOOD AND URINE - EVALUATION OF A RADIOIMMUNOASSAY METHOD AND ITS CLINICAL APPLICATIONS. Kuzuya T, Saito T, Yoshida S, Matsuda A *Diabetologia* 12: 511-8, Oct 76 (Eng) DL/77FEB120

IMMUNOREACTIVITY, GLUCAGON LIKE

PURIFICATION AND CHARACTERIZATION OF A PROTEIN FROM PORCINE GUT WITH GLUCAGON-LIKE IMMUNOREACTIVITY. Sundby F, Jacobsen H, Moody AJ *Horm Metab Res* 8: 366-71, Sep 76 (Eng) DL/77FEB143

IMMUNOSUPPRESSION

[STERIOD DIABETES - VERY SIGNIFICANT COMPLICATION OF IMMUNOSUPPRESSION FOLLOWING THE KIDNEY TRANSPLANTATION] Boskovic S, Haracic M *Med Arh* 30: 195-7, May-Jun 76 (Scr) DL/77FEB239

IMPOTENCE

IMPOTENCE IN DIABETES MELLITUS. Renshaw DC *Compr Ther* 2: 47-50, Nov 76 (Eng) DL/77FEB52

LUTEINIZING RELEASE HORMONE TESTS IN IMPOTENT DIABETIC MALES. Wright AD, London DR, Holder G, Williams JW, Rudd BT *Diabetes* 25: 975-7, Oct 76 (Eng) DL/77FEB106

IN UTERO

TIME COURSE OF GLUCOSE-INDUCED INCREASE IN PLASMA INSULIN IN THE RAT FOETUS IN UTERO. Dervran A, Girard JR *J Endocrinol* 70: 519-20, Sep 76 (Eng) DL/77FEB199

IN VITRO

[IN VITRO ASSAY FOR ACTH-RELEASING ACTIVITY USING ACTH RADIOIMMUNOASSAY: ACTH RELEASING ACTIVITIES BY VARIOUS DRUGS (AUTHORS TRANSL.) Hashimoto K, Takahara J, Hosogi H, Ofuji N, Yasuhara T *Folia Endocrinol Jpn* 52: 114-24, 20 Feb 76 (Jpn) DL/77FEB82

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabetes Metab* 1: 7-11, Mar 75 (Eng) DL/77FEB90

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteceuvre M, Buneaux JJ *Diabetes Metab* 1: 101-11, Jun 75 (Eng) DL/77FEB91

IN VIVO

EFFECTS OF STREPTOZOTOCIN IN VITRO ON PROINSULIN BIOSYNTHESIS, INSULIN RELEASE AND ATP CONTENT OF ISOLATED RAT ISLETS OF LANGERHANS. Maldonado A, Trueheart PA, Renold AE, Sharp GW *Diabetologia* 12: 471-81, Oct 76 (Eng) DL/77FEB116

IN VIVO AND IN VITRO ACTIONS OF SYNTHETIC PART SEQUENCES OF HUMAN PITUITARY GROWTH HORMONE. PP. 41-9. Bornstein J In: Pecile A, Muller EE, ed. *Growth hormone and related peptides*. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB183

CONTROL OF GLUCAGON SECRETION BY NUTRIENTS IN VITRO. Matschinsky FM, Pagliara AS *Metabolism* 25: 1435-6, Nov 76 (Eng) DL/77FEB291

REGULATION OF GLUCAGON SECRETION OF THE DIABETIC PANCREAS IN VITRO [PROCEEDINGS]. Matschinsky FM, Pagliara AS *Metabolism* 25: 1517, Nov 76 (Eng) DL/77FEB313

EFFECT OF HEPARIN ON INSULIN SECRETION IN VIVO AND IN VITRO. Orosz L *Res Exp Med (Berl)* 167: 239-54, 2 Jul 76 (Eng) DL/77FEB377

THE EFFECT OF GLUCOSE, INSULIN AND ADRENALINE ON GLYCEROL METABOLISM IN VITRO IN RAT ADIPOSE TISSUE. Dominguez MC, Herrera E *Biochem J* 158: 183-90, 15 Aug 76 (Eng) DL/77FEB503

EFFECT OF ETHYL ACETATE ON THE TRANSPORT OF SODIUM AND GLUCOSE IN THE HAMSTER SMALL INTESTINE IN VITRO. Esposito G, Faelli A, Capraro V *Biochim Biophys Acta* 426: 489-98, 19 Mar 76 (Eng) *DL/77FEB520

DIFFERENTIAL SYNTHESIS OF CRYSTALLINE AND NONCRYSTALLINE POLYPEPTIDES DURING LENS FIBER CELL DIFFERENTIATION IN VITRO. Beebe DC, Piatigorsky Exp Eye Res 22: 237-49, Mar 76 (Eng) *DL/77FEB552

EFFECT OF GAMMA RAYS FROM ⁶⁰CO ON THE IN VITRO INCORPORATION OF PALMITIC ACID IN LIPIDS OF RAT LIVER MICROSOMES [Magdalou J, Doussot N, Douste-Blazy L *Int J Radiat Biol* 29: 27-35, Jan 76 (Fre) *DL/77FEB565

EXCHANGE OF PHOSPHOLIPIDS BETWEEN MITOCHONDRIA AND ROUGH OR SMOOTH MICROSOMES IN VITRO. Taniguchi M, Sakagami T *J Biochem (Tokyo)* 77: 1245-8, Jun 75 (Eng) *DL/77FEB567

IN VIVO

[ANTAGONISM IN THE ACTION OF HYDROCORTISONE AND INSULIN IN VIVO ON ENZYMES OF PYRUVATE AND MALATE METABOLISM IN ADIPOSE TISSUE] Ilin VS, Vasileva LE, Tokhadze OG *Biokhimiia* 41: 1646-50, Sep 76 (Rus) DL/77FEB12

IN VIVO AND IN VITRO ACTIONS OF SYNTHETIC PART SEQUENCES OF HUMAN PITUITARY GROWTH HORMONE. PP. 41-9. Bornstein J In: Pecile A, Muller EE, ed. *Growth hormone and related peptides*. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB183

AN IMPORTANT ROLE FOR GLUCAGON IN THE REGULATION OF GLUCOSE PRODUCTION IN VIVO. Liljenquist JE, Chiassan JL, Cherrington AD, Keller U, Jennings AS, Bomboy JD, Lacy WW *Metabolism* 25: 1371-3, Nov 76 (Eng) DL/77FEB276

CONTROL OF PANCREATIC I_{IRG} SECRETION IN VIVO. Gerich JE *Metabolism* 25: 1437-41, Nov 76 (Eng) [13] DL/77FEB292

EFFECT OF CHRONIC GLUCAGON-ADMINISTRATION ON THE DIGESTIVE AND ABSORPTIVE FUNCTION OF RAT SMALL INTESTINE IN VIVO. Caspary WF, Lucke H *Res Exp Med (Berl)* 167: 1-13, 27 Feb 76 (Eng) DL/77FEB373

EFFECT OF HEPARIN ON INSULIN SECRETION IN VIVO AND IN VITRO. Orosz L *Res Exp Med (Berl)* 167: 239-54, 2 Jul 76 (Eng) DL/77FEB377

[REGULATION OF MICROSOMAL ENZYME ACTIVITY BY PHOSPHOLIPIDS IN VIVO] Burlakova EB, Dzhalibova MI, Molochkina EM *Dokl Akad Nauk SSSR* 227: 991-4, 1976 (Rus) *DL/77FEB547

MYOCARDIAL SUBSTRATE LEVELS IN VIVO DURING HYPOXIA OF VARIOUS DEGREES AND DURATION. Weissel M, Turnheim K *Recent Adv Stud Cardiac Struct Metab* 7: 275-82, 1975 (Eng) *DL/77FEB669

INBRED MOUSE

INBRED MICE AND THEIR HYBRIDS AS AN ANIMAL MODEL FOR ATHEROSCLEROSIS RESEARCH. Roberts A, Thompson JS *Adv Exp Med Biol* 67: 313-327, 1976 (Eng) *DL/77FEB695

INDERAL

[BLOOD GLUCOSE LEVELS IN PATIENTS ON HEMODIALYSIS DURING PROPRANOLOL (INDERAL) TREATMENT] Jensen HA, Laursen PA, Moller BB *Ugeskr Laeger* 138: 2956-7, 15 Nov 76 (Dan) DL/77FEB418

INFANCY

DISORDERS OF CARBOHYDRATE METABOLISM IN INFANCY. Cornblath M, Schwartz R *Major Probl Clin Pediatr* 3: 1-483, 1976 (Eng) DL/77FEB235

INFANT MORTALITY

[PREVENTIVE MEASURES AGAINST INFANT MORTALITY AND CEREBRAL DISEASES ASSOCIATED WITH PREMATURITY] Duc G *Gynaekol Rundsch* 15 suppl 1: 34-8, 1975 (Fre) *DL/77FEB562

INFANT, NEWBORN

[INTRAVENOUS AND ORAL GLUCOSE: PRODUCTION OF INSULIN AND GROWTH HORMONE IN THE NEWBORN INFANT] Dorantes Alvarez L, De Los Monteros Mena AE, Matus Seucira A, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 979-92, Sep-Oct 76 (Spa) DL/77FEB3

INFANTILE DIABETES

[LONG-TERM PROGNOSIS OF INFANTILE DIABETES [EDITORIAL]] Lestrade H, Besse J, Billaud L, Battistelli F, Tric F, Lestrade F *Nouv Presse Med* 6: 2297-8, 23 Oct 76 (Fre) DL/77FEB345

INFARCT RETINA

REGIONAL ISCHEMIC INFARCTS OF THE RETINA. Foos RY *Albrecht von Graefes Arch Klin Ophthalmol* 200: 183-94, 1976 (Eng) DL/77FEB481

INFARCTING HEART

ESTIMATED GLYCOLYTIC FLUX IN INFARCTING HEART. Opie LH, Owen P, Lubbe W *Recent Adv Stud Cardiac Struct Metab* 7: 249-55, 1975 (Eng) *DL/77FEB666

INFARCTION

METABOLIC CHANGES IN INFARCTED AND NON-INFARCTED MYOCARDIUM DURING THE POSTINFARCTION PERIOD. Gudbjarnason S, Ravens KG, Mathes P *Recent Adv Stud Cardiac Struct Metab* 1: 439-46, 1972 (Eng) *DL/77FEB644

INFARCTION, CARDIAC

[CARDIAC INFARCTION IN THE ELDERLY] Konu V *Duodecim* 92: 1028-34, 1976 (Fin) DL/77FEB65

INFARCTION, MYOCARDIAL

MYOCARDIAL INFARCTION IN YOUNGER WOMEN. ASSOCIATED CLINICAL FEATURES AND RELATIONSHIP TO USE OF ORAL CONTRACEPTIVE DRUGS. Arthes FG, Masi AT *Chest* 70: 574-83, Nov 76 (Eng) DL/77FEB60

EFFECTS OF REGIONAL ISCHEMIA ON METABOLISM OF GLUCOSE AND FATTY ACIDS. RELATIVE RATES OF AEROBIC AND ANAEROBIC ENERGY PRODUCTION DURING MYOCARDIAL INFARCTION AND COMPARISON WITH EFFECTS OF ANOXIA. Opie LH *Circ Res* 38: i52-74, May 76 (Eng) *DL/77FEB539

CATECHOLAMINES AND MYOCARDIAL INFARCTION. Young RC, Thomas M, Evans ME, Opie LH *Recent Adv Stud Cardiac Struct Metab* 1: 163-8, 1972 (Eng) *DL/77FEB637

METABOLISM OF NOREPINEPHRINE IN NONINFARCTED HEART MUSCLE AFTER EXPERIMENTAL MYOCARDIAL INFARCTION. Mathes P, Sack DW, Gudbjarnason S *Recent Adv Stud Cardiac Struct Metab* 7: 283-7, 1975 (Eng) *DL/77FEB670

INFUSION

MODULATION OF FATTY ACID METABOLISM BY GLUCAGON IN MAN. IV. EFFECTS OF A PHYSIOLOGIC HORMONE INFUSION IN NORMAL MAN. Schade DS, Eaton RP *Diabetes* 25: 978-83, Oct 76 (Eng) DL/77FEB107

INFLUENCE OF POLARIZING INFUSIONS ON ANTHARRHYTHMIC EFFECTS OF BETA-BLOCKERS. Rossi P, Araldi D, Cernigliaro C, D'Aulerio M, Carcano G *G Ital Cardiol* 6: 620-7, 1976 (Eng) DL/77FEB126

INFUSION, GLUCOSE

ARTERIAL-HEPATIC VEIN GLUCOSE DIFFERENCES IN NORMAL AND DIABETIC MAN AFTER A GLUCOSE INFUSION AT REST AND AFTER EXERCISE. Machlum S, Jervell J, Pruett ED *Scand J Clin Lab Invest* 36: 415-22, Sep 76 (Eng) DL/77FEB391

INFUSION, INSULIN

[TREATMENT OF DIABETIC KETO-ACIDOSIS THROUGH CONTINUOUS INSULIN INFUSION] Mirouze J, Mion C, Monnier L, Beraud JJ, Selam JL *Nouv Presse Med* 5: 2444-6, 6 Nov 76 (Fre) DL/77FEB342

EFFECT OF THE HISTAMINE H₂-RECEPTOR ANTAGONIST, CIMETIDINE, ON GASTRIC SECRETION AND SERUM GASTRIN DURING INSULIN INFUSION IN MAN. Carter DC, Forrest JA, Logan RA, Ansell I, Lidgard G, Heading RC, Shearman DJ *Scand J Gastroenterol* 11: 565-70, 1976 (Eng) DL/77FEB393

Diabetes Literature—Keyword Index

INSULIN

INFUSION, SOMATOSTATIN

METABOLIC EFFECTS OF LONG-TERM SOMATOSTATIN INFUSION IN MAN. Gerich JE *Metabolism* 25: 1505-7, Nov 76 (Eng) DL/77FEB310

INHERITANCE

DOMINANT INHERITANCE DIABETES MELITUS. Tulloch JA, Adamson DG *J R Coll Physicians Lond* 11: 86-90, Oct 76 (Eng) DL/77FEB214

DOMINANT INHERITANCE OF LARGE MOLECULAR WEIGHT SPECIES OF GLUCAGON. Ensink JW, Palmer JP *Metabolism* 25: 1409-11, Nov 76 (Eng) DL/77FEB285

INHERITANCE OF DIABETES MELLITUS [LETTER]. Rosenthal MB, Goldfine ID, Siperstein MD *N Engl J Med* 295: 1321, 2 Dec 76 (Eng) DL/77FEB324

INJECTION

DECAY OF SUCCINATE DEHYDROGENASE ACTIVITY IN RAT SKELETAL MUSCLE FOLLOWING STREPTOZOTOCIN INJECTION. Armstrong RB, Ianuzzo CD *Horm Metab Res* 8: 392-4, Sep 76 (Eng) DL/77FEB146

INFLUENCE OF CHRONIC THYROTROPIN-RELEASING HORMONE INJECTIONS ON SECRETION OF PROLACTIN, THYROTROPIN AND GROWTH HORMONE AND ON GROWTH RATE IN WETHER LAMBS. Davis SL, Hill DM, Ohlson DL, Jacobs JA *J Anim Sci* 42: 1244-50, May 76 (Eng) *DL/77FEB566

INJECTION, INTRAHYPOTHALAMIC

SUPPRESSION OF FOOD INTAKE IN DIABETIC RATS BY VOLUNTARY CONSUMPTION AND INTRAHYPOTHALAMIC INJECTION OF GLUCOSE. Panksepp J, Meeker R *Physiol Behav* 16: 763-70, Jun 76 (Eng) DL/77FEB366

INJECTION SUGAR

THE ACTION OF THE EXCRETORY APPARATUS OF CALLIPHORA VOMITORIA IN HANDLING INJECTED SUGAR SOLUTION. Knowles G *J Exp Biol* 64: 131-40, Feb 76 (Eng) *DL/77FEB596

INJURY

PANCREATIC ISLET INJURY INDUCED BY METHYL MERCURIC CHLORIDE LIGHT AND ELECTRON MICROSCOPIC STUDIES. Shigenaga K *Kumamoto Med J* 29: 67-81, 30 Jun 76 (Eng) DL/77FEB232

INJURY, BRACHIAL PLEXUS

[OBSTETRICAL BRACHIAL PLEXUS INJURIES. A STUDY ON PERINATAL MORBIDITY] Vrouwennarts PE, Arts JP, Kinderneuroloog PF *Ned Tijdschr Geneesk* 120: 1666-72, 2 Oct 76 (Dut) DL/77FEB329

INOSINE

INOSINE-STIMULATED INSULIN RELEASE AND METABOLISM OF INOSINE IN ISOLATED MOUSE PANCREATIC ISLETS. Capito K, Hedeskov CJ *Biochem J* 158: 335-40, 15 Aug 76 (Eng) DL/77FEB505

INOTROPIC ACTION

A POLYPEPTIDE (AP-A) FROM SEA ANEMONE (ANTHOPELURA XANTHOGRAMMICA) WITH POTENT POSITIVE INOTROPIC AC-

TION. Shibata S, Norton TR, Izumi T, Matsuo T, Katsuki S *J Pharmacol Exp Ther* 199: 298-309, Nov 76 (Eng) DL/77FEB210

INSECT FLIGHT MUSCLE

INSECT FLIGHT MUSCLE: MATURATION AND SENESENCE. Baker GT *3rd Gerontology* 22: 334-61, 1976 (Eng) *DL/77FEB561

INSULIN

[RELATIONSHIPS BETWEEN THYROTROPIN, GROWTH HORMONE AND INSULIN IN HYPOTHYROIDISM] Vergara Rodriguez J, De Los Monteros Mena AE, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 1021-31, Sep-Oct 76 (Spa) DL/77FEB1

[INTRAVENOUS AND ORAL GLUCOSE: PRODUCTION OF INSULIN AND GROWTH HORMONE IN THE NEWBORN INFANT] Dorantes Alvarez L, De Los Monteros Mena AE, Matus Seueira A, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 979-92, Sep-Oct 76 (Spa) DL/77FEB3

POLYMERIZATION PATTERN OF INSULIN AT PH 7.0. Jeffrey PD, Milthorpe BK, Nichol LW *Biochemistry* 15: 4660-5, 19 Oct 76 (Eng) DL/77FEB10

[ANTAGONISM IN THE ACTION OF HYDROCORTISONE AND INSULIN IN VIVO ON ENZYMES OF PYRUVATE AND MALATE METABOLISM IN ADIPOSE TISSUE] Ilin VS, Vasileva LE, Tokhadze OG *Biokhimiia* 41: 1646-50, Sep 76 (Rus) DL/77FEB12

GLUCOSE UPTAKE BY NORMAL HUMAN BREAST TISSUE IN ORGAN CULTURE. INFLUENCE OF INSULIN AND OTHER ADDITIVES. van Bogaert LJ *Cell Tissue Res* 171: 535-41, 1 Sep 76 (Eng) DL/77FEB40

THE LEVEL AND COMPOSITION OF SEROMUCOID AND NONDIALYSABLE SERUM SUGAR-PEPTIDE FRACTION COMPARED WITH THE ACTIVITY OF GALACTOSYL TRANSFERASE (EC 2.4.1.38) OF LIVER GOLGI MEMBRANES IN INSULIN-TREATED RATS. Guzek A, Kordowiak A, Sarnecka-Keller M *Clin Chim Acta* 72: 393-9, 1 Nov 76 (Eng) DL/77FEB43

THE INFLUENCE OF INSULIN ON THE PROPORTION OF NEUTRAL SUGARS IN SEROMUCOID OF DIABETIC PATIENTS. Guzek A, Ciba T, Sarnecka-Keller M *Clin Chim Acta* 72: 401-4, 1 Nov 76 (Eng) DL/77FEB44

RENAL WASTAGE OF INSULIN IN CHILDREN WITH DIABETES MELLITUS. Malone JL, Root AW *Diabetes* 25: 989-93, Oct 76 (Eng) DL/77FEB109

POSTMATURITY IN THE RAT: IMPAIRMENT OF INSULIN, GLUCAGON, AND GLYCOGEN STORES. Portha B, Rosselin G, Picon L *Diabetologia* 12: 429-36, Oct 76 (Eng) DL/77FEB110

EFFECT OF HYPOPHYSECTOMY AND INSULIN ON LIPOGENESIS IN COCKERELS. Kompang IP, Gibson WR *Horm Metab Res* 8: 340-5, Sep 76 (Eng) DL/77FEB138

CENTRALLY MEDIATED HYPOCHOLESTEROLAEMIC RESPONSE OF INSULIN IN DOGS. Barthwal KC, Singh KN, Bapat V, Bapat SK *Indian J Physiol Pharmacol* 20: 136-40, Jul-Sep 76 (Eng) DL/77FEB150

EFFECT OF POTASSIUM AND HYPOMAGNESEMIA ON INSULIN IN THE BOVINE. Lentz DE, Madsen FC, Miller JK, Hansard SL *J Anim Sci* 43: 1082-7, Nov 76 (Eng) DL/77FEB154

CELL SURFACE RECEPTORS FOR INSULIN AND HUMAN GROWTH HORMONE. EFFECT OF MICROTUBULE AND MICROFILAMENT MODIFIERS. Van Obberghen E, De Meyts P,

Roth J *J Biol Chem* 251: 6844-51, 10 Nov 76 (Eng) DL/77FEB161

STUDIES OF HUMAN DIPLOID FIBROBLAST GROWTH. I. RESPONSES OF NORMAL AND HYPOPHYSECTOMIZED CELLS TO FIBROBLAST GROWTH FACTOR, INSULIN, AND SERUM. Jones KL, Addison J *J Clin Endocrinol Metab* 43: 721-9, Oct 76 (Eng) DL/77FEB166

THE POTENTIATING INFLUENCES OF INSULIN ON PANCREOZYMIN-INDUCED HYPERPOLARIZATION AND AMYLASE RELEASE IN THE PANCREATIC ACINAR CELL. Kanno T, Saito A *J Physiol (Lond)* 261: 505-21, Oct 76 (Eng) DL/77FEB213

RECURRENT DIABETIC KETOACIDOSIS: COMPARISON OF THERAPY WITH LOW DOSE AND HIGH DOSE INSULIN. Guerra SM *J Tenn Med Assoc* 69: 781-4, Nov 76 (Eng) DL/77FEB233

[EXPERIENCES WITH MONOCOMPONENT (MC) INSULIN IN THE TREATMENT OF JUVENILE DIABETES] Aronson S, Engleson G *Lakartidningen* 73: 3982-4, 10 Nov 76 (Swe) DL/77FEB243

INSULIN, GLUCAGON, AMINOACID IMBALANCE, AND HEPATIC ENCEPHALOPATHY. Soeters PB, Fischer JE *Lancet* 2: 880-2, 23 Oct 76 (Eng) DL/77FEB245

[RADIOIMMUNOLOGIC DETERMINATION OF STH, INSULIN, AND C-PEPTIDE. INDICATION, FUNCTIONAL TESTS, INTERPRETATION OF THE FINDINGS] Schroder KE, Raptis S, Beischer W *Med Welt* 27: 1720-5, 10 Sep 76 (Ger) DL/77FEB257

PROPRANOLOL EFFECT ON PLASMA GLUCOSE, FREE FATTY ACID, INSULIN, AND GROWTH HORMONE IN GRAVES DISEASE. Ortigosa JL, Mendoza F, Argote RM, Garcia G, Cervantes C, Parra A *Metabolism* 25: 1201-7, Nov 76 (Eng) DL/77FEB260

INSULIN, GLUCAGON, LIVER REGENERATION, AND DNA SYNTHESIS. Bucher NL, Weir GC *Metabolism* 25: 1423-5, Nov 76 (Eng) DL/77FEB288

INSULIN AND GLUCAGON AS MODIFIERS OF DNA SYNTHESIS IN THE REGENERATING RAT LIVER. Price JB Jr *Metabolism* 25: 1427-8, Nov 76 (Eng) DL/77FEB289

INSULIN, GLUCAGON, AND THE CONTROL OF HEPATIC STRUCTURE, FUNCTION, AND CAPACITY FOR REGENERATION. Starzl TE, Porter KA, Putnam CW *Metabolism* 25: 1429-34, Nov 76 (Eng) DL/77FEB290

INTRAISET NEGATIVE INSULIN-GLUCAGON FEEDBACK. Samols E, Harrison J *Metabolism* 25: 1443-7, Nov 76 (Eng) DL/77FEB293

EFFECTS OF NEUROTENSIN AND SUBSTANCE P ON INSULIN AND GLUCAGON RELEASE BY THE PERFUSED DOG PANCREAS [PROCEEDINGS]. Patton G, Brown M, Dobbs R, Vale W, Unger RH *Metabolism* 25: 1463, Nov 76 (Eng) DL/77FEB300

MUSCULAR AND SEROSAL EFFECTS OF INSULIN ON ION CONTENTS OF THE FROG URINARY BLADDER. Janacek K, Rybova R, Slavikova M *Physiol Bohemoslov* 25: 385-7, 1976 (Eng) DL/77FEB367

[BETA RECEPTOR BLOCKING AGENTS, INSULIN AND HYPOGLYCEMIA] Froland A *Ugeskr Laeger* 138: 2970, 15 Nov 76 (Dan) DL/77FEB420

INSULIN IN POST-MORTEM BLOOD. A COMMENT. Oksanen A *Z Rechtsmed* 77: 311-2, 21 Apr 76 (Eng) DL/77FEB443

INSULIN KINETIC, GLUCOSE TOLERANCE, AND LIPID METABOLISM IN GENETICALLY SPONTANEOUS-HYPERTENSIVE RATS. Baumann R, Moritz V, Godicke W, Postnow JW, Ziegler M *Acta Biol Med Ger* 35: 33-9, 1976 (Eng) DL/77FEB451

125I-INSULIN

THE EFFECT OF GLUCOSE, INSULIN AND ADRENALINE ON GLYCEROL METABOLISM IN VITRO IN RAT ADIPOSE TISSUE. Dominguez MC, Herrera E *Biochem J* 158: 183-90, 15 Aug 76 (Eng) DL/77FEB503

GLUCOSE METABOLISM IN PERFUSED SKELETAL MUSCLE. EFFECTS OF STARVATION, DIABETES, FATTY ACIDS, ACETOACETATE, INSULIN AND EXERCISE ON GLUCOSE UPTAKE AND DISPOSITION. Berger M, Hagg SA, Goodman MN, Ruderman NB *Biochem J* 158: 191-202, 15 Aug 76 (Eng) DL/77FEB504

INSULIN DECREASES BACTERIAL MEMBRANE FLUIDITY. IS IT A GENERAL EVENT IN ITS ACTION? Moreno H, Farias RN *Biochem Biophys Res Commun* 72: 74-80, 7 Sep 76 (Eng) DL/77FEB508

125I-INSULIN

MITOGEN RECEPTORS IN CHICK EMBRYO FIBROBLASTS. KINETICS, SPECIFICITY, UNMASKING, AND SYNTHESIS OF 125I-INSULIN BINDING SITES. Raizada MK, Perdue JF *J Biol Chem* 251: 6445-55, 25 Oct 76 (Eng) DL/77FEB159

DES-PENTAPEPTIDE (B26-30) INSULIN

STRUCTURAL STUDIES ON DES-PENTAPEPTIDE (B26-30)-INSULIN. III. STATE OF AGGREGATION, TYROSYL ENVIRONMENT, AND PEPTIDE BACKBONE CONFORMATION IN SOLUTION. Anonymous *Sci Sin* 19: 475-85, Jul-Aug 76 (Eng) DL/77FEB395

STRUCTURAL STUDIES ON DES-PENTAPEPTIDE (B26-30)-INSULIN. IV. A PRELIMINARY INVESTIGATION ON THE HYDROPHOBIC REGION BY EMPLOYING A FLUORESCENCE PROBE, 1-P-TOLUIDINYLNAPHTHALENE-8-SULPHONATE. Anonymous *Sci Sin* 19: 486-96, Jul-Aug 76 (Eng) DL/77FEB396

STRUCTURAL STUDIES ON DES-PENTAPEPTIDE (B26-30)-INSULIN. V. HIGH RESOLUTION NMR STUDIES. Anonymous *Sci Sin* 19: 497-504, Jul-Aug 76 (Eng) DL/77FEB397

INSULIN ACTION

STUDIES ON INSULIN ACTION. V. STRUCTURAL REQUIREMENTS OF PRIMERS FOR SUBSEQUENT ACCUMULATION OF D-GLUCOSE AT 0 DEGREES C IN INSULINIZED FROG MUSCLES. Ling GN, Will S *Physiol Chem Phys* 8: 115-24, 1976 (Eng) DL/77FEB364

INSULIN ADMINISTRATION

THE EFFECTS OF ACUTE AND CHRONIC INSULIN ADMINISTRATION ON PLASMA IRI LEVELS IN HUMAN DIABETES. Raskin P, Aydin I, Unger RH *Metabolism* 25: 1531-3, Nov 76 (Eng) DL/77FEB317

INSULIN ANTIBODY

INSULIN RESISTANT DIABETES MELLITUS WITHOUT THE PRESENCE OF INSULIN ANTIBODIES. A CASE REPORT. Pav J, Sramkova J, Matys Z *Endokrinologie* 67: 373-6, 1976 (Eng) DL/77FEB71

INSULIN BINDING

THE EFFECTS OF MAZINDOL AND 46-034 (SANDOZ) ON GLUCOSE OXIDATION AND INSULIN BINDING BY RAT ISOLATED FAT CELLS. Harrison LC, King-Roach AP *Clin Exp Pharmacol Physiol* 3: 503-6, Sep-Oct 76 (Eng) DL/77FEB46

INSULIN BIOSYNTHESIS

EFFECTS OF IODOACETATE AND FLUORIDE ON ISLAND RESPIRATION AND INSULIN BIOSYNTHESIS. Lin BJ, Henderson MJ, Levine BB, Nagy BR, Nagy EM *Horm Metab Res* 8: 353-8, Sep 76 (Eng) DL/77FEB141

INSULIN BIOSYNTHESIS IN PANCREATIC ISLETS ISOLATED FROM STARVED MICE. Andersson A *Horm Metab Res* 8: 403-4, Sep 76 (Eng) DL/77FEB147

INSULIN, BLOOD

[BLOOD SUGAR AND BLOOD INSULIN AFTER A RAW OR COOKED MEAL IN CONTROL AND DIABETIC SUBJECTS] Havrankova J, Pesant P, Elie R, Matte R *Union Med Can* 105: 1147-51, Aug 76 (Fre) DL/77FEB421

INSULIN DEFICIENCY

DIABETIC POLYNEUROPATHY: THE IMPORTANCE OF INSULIN DEFICIENCY, HYPERGLYCEMIA AND ALTERATIONS IN MYOINOSITOL METABOLISM IN ITS PATHOGENESIS. Winegrad AI, Greene DA *N Engl J Med* 295: 1416-21, 16 Dec 76 (Eng) DL/77FEB326

INSULIN DEGRADATION

STUDIES ON UREA SYNTHESIS, INSULIN DEGRADATION AND PHAGOCYTOSIS BY ISOLATED RAT KUPFFER CELLS. Wagle SR, Hofmann F, Decker K *Biochem Biophys Res Commun* 72: 448-55, 20 Sep 76 (Eng) DL/77FEB509

INSULIN DEPENDENT DIABETES

[PARODONTOPATHY REVEALING INSULIN-DEPENDENT DIABETES (LETTER)] Pinget M, Dörner M, Brocard JM, Comte F, Farge R, Roth JJ *Nouv Presse Med* 5: 1995, 25 Sep 76 (Fre) DL/77FEB340

[INSULIN-DEPENDENT DIABETES DURING THE THIRD LIFE-PERIOD] Hoet JJ *Probl Actuels Endocrinol Nutr serie* 17: 185-91, 1973 (Fre) DL/77FEB356

INSULIN DEPENDENT DIABETIC

EFFECTS OF ACUTE INSULIN WITHDRAWAL AND ADMINISTRATION ON PLASMA GLUCAGON RESPONSES TO INTRAVENOUS ARGININE IN INSULIN-DEPENDENT DIABETIC SUBJECTS. Gerich JE, Lorenzi M, Tsalkian E, Bohannon NV, Schneider V, Karam JH, Forsham PH *Diabetes* 25: 955-60, Oct 76 (Eng) DL/77FEB103

EFFECT OF SOMATOSTATIN ON METABOLIC AND HORMONAL CHANGES INDUCED BY NICOTINIC ACID IN INSULIN-DEPENDENT DIABETICS. Luyckx AS, Lefebvre PJ *Diabetologia* 12: 447-53, Oct 76 (Eng) DL/77FEB113

INSULIN, ENDOGENOUS

[MODIFICATION OF INSULIN-SECRETION, INDUCED BY GLUCOSE, OF THE ISOLATION-PERFUSED RAT PANCREAS USING TOLBUTAMIDE, GLUCOSAMINE, DIAZOXIDE, GLUCAGON AND ENDOGENOUS INSULIN] Bierwolf B, Blech W *Acta Biol Med Ger* 35: 583-95, 1976 (Ger) DL/77FEB450

INSULIN EXCRETION

THE EXCRETION OF INSULIN IN URINE. El-Allawy RM, Sonne O, Gliemann J, Orskov H, Johansen K *Diabetologia* 12: 523-6, Oct 76 (Eng) DL/77FEB122

INSULIN HYPOGLYCEMIA

[INSULIN HYPOGLYCEMIA DURING TREATMENT OF DIABETES MELLITUS IN CHILDREN] Jokanovic R, Nikic M *Srp Arh Celok Lek* 104: 49-56, Jan 76 (Scc) DL/77FEB404

INSULIN, IMMUNOREACTIVE

THE SUGAR CONNECTION. REACTIVE HYPOGLYCEMIAS AND IMMUNOREACTIVE INSULIN ASSAY. Shah S *J Kans Med Soc* 77: 494, 516, Nov 76 (Eng) DL/77FEB196

[BEHAVIOUR OF SERUM CONCENTRATIONS OF GLUCOSE, IMMUNOREACTIVE INSULIN AND POTASSIUM IONS IN NEWBORNS AFTER LONG TERM OR CRASH TREATMENTS WITH PARTUSISTEN OR PARTUSISTEN IN COMBINATION WITH ISOPTIN (AUTHORS TRANSL)] Weidinger H, Mohr D, Haller K, Hiltmann WD, Vogel M *Z Geburtshilfe Perinatol* 180: 258-65, Aug 76 (Ger) DL/77FEB439

INSULIN INDEPENDENT

EVIDENCE FOR AN INSULIN-INDEPENDENT ALPHA-CELL ABNORMALITY IN HUMAN DIABETES. Bennett PH, Aronoff SL, Unger RH *Metabolism* 25: 1527-9, Nov 76 (Eng) DL/77FEB316

INSULIN INFUSION

[TREATMENT OF DIABETIC KETO-ACIDOSIS THROUGH CONTINUOUS INSULIN INFUSION] Mirouze J, Mion C, Monnier L, Beraud JJ, Selam JL *Nouv Presse Med* 5: 2444-6, 6 Nov 76 (Fre) DL/77FEB342

EFFECT OF THE HISTAMINE H2-RECEPTOR ANTAGONIST, CIMETIDINE, ON GASTRIC SECRETION AND SERUM GASTRIN DURING INSULIN INFUSION IN MAN. Carter DC, Forrest JA, Logan RA, Ansell I, Lidgard G, Heading RC, Shearman DJ *Scand J Gastroenterol* 11: 565-70, 1976 (Eng) DL/77FEB393

INSULIN INTERACTION

THE ROLE OF GLUCAGON-INSULIN INTERACTIONS IN CONTROL OF GLUCOSE TURNOVER AND ITS SIGNIFICANCE IN DIABETES. Vranic M, Ross G, Doi K, Lickley L *Metabolism* 25: 1375-80, Nov 76 (Eng) DL/77FEB277

INSULIN LIKE

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabetes Metab* 1: 7-11, Mar 75 (Eng) DL/77FEB90

INSULIN LIKE ACTIVITY, NONSUPPRESSIBLE

RADIORECEPTOR ASSAY OF PLASMA NSILAS IN MAN: BASAL AND STIMULATED LEVELS IN NORMAL AND PATHOLOGIC STATES. PP. 127-40. Megyesi K, Kahn CR, Roth J, Gorden P, Neville DM Jr *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. WJ EX89 no.381 1975. (Eng) DL/77FEB187*

INSULIN LOSS

INSULIN LOSS IN PARENTERAL NUTRITION SYSTEMS. Oh TE, Dyer H, Wall BP, Hall RA, Jellett LB *Anaesth Intensive Care* 4: 342-6, Nov 76 (Eng) DL/77FEB484

INSULIN SECRETION

INSULIN, PLASMA

STUDIES ON EXPERIMENTAL HYPOTROPHY IN THE RAT. III. PLASMA INSULIN AND GLUCAGON. Girard JR, Chanez C, Kervran A, Tordet-Caridroit C, Assan R *Biol Neonate* 29: 262-6, 1976 (Eng) DL/77FEB13

IMPAIRED PLASMA INSULIN RESPONSE TO ARGININE IN HYPERTHYROIDISM. IMPORTANT ROLE OF THE RISE OF BLOOD GLUCOSE IN THE SECOND PHASE OF INSULIN RELEASE INDUCED BY ARGININE. Imura H, Seino Y, Ikeda M, Taminato T, Miyamoto Y *Diabetes* 25: 961-8, Oct 76 (Eng) DL/77FEB104

MATERNAL PROTEIN MALNUTRITION DURING GESTATION ALONE AND ITS EFFECTS ON PLASMA INSULIN LEVELS OF THE PREGNANT PIG, ITS FETUSES AND THE DEVELOPING OFFSPRING. Atinmo T, Baldijao C, Pond WG, Barnes RH *J Nutr* 106: 1647-53, Nov 76 (Eng) DL/77FEB203

PLASMA INSULIN LEVELS IN WEANED PIGS FED PROTEIN OR ENERGY RESTRICTED DIETS. Atinmo T, Baldijao C, Pond WG, Barnes RH *J Nutr* 106: 1654-8, Nov 76 (Eng) DL/77FEB204

NEUROTENSIN AND SUBSTANCE-P: EFFECTS ON PLASMA INSULIN AND GLUCAGON LEVELS. Brown M, Villarreal J, Vale W *Metabolism* 25: 1459-61, Nov 76 (Eng) DL/77FEB298

INSULIN RECEPTOR

IDENTIFICATION AND CHARACTERIZATION OF THE INSULIN RECEPTOR IN THE R3230AC MAMMARY ADENOCARCINOMA OF THE RAT. Harmon JT, Hilf R *Cancer Res* 36: 3993-4000, Nov 76 (Eng) DL/77FEB37

[INSULIN RECEPTORS-A REVIEW (AUTHORS TRANSL)] Freychet P *Diabetes Metab* 1: 57-68, Mar 75 (Fre) [82] DL/77FEB89

A STUDY OF INSULIN RECEPTORS IN HUMAN MONONUCLEAR LEUCOCYTES. Pedersen O, Beck-Nielsen H *Acta Endocrinol (Kbh)* 83: 556-64, Nov 76 (Eng) DL/77FEB455

THE INSULIN RECEPTOR IN NORMAL AND OBESE PERSONS. Beck-Nielsen H, Pedersen O, Bagger JP, Sorensen NS *Acta Endocrinol (Kbh)* 83: 565-75, Nov 76 (Eng) DL/77FEB456

INSULIN REGIMEN

NEW INSULIN REGIMENS FOR SEVERE DIABETIC KETOSIS. Anonymous *Drug Ther Bull* 14: 77-9, 24 Sep 76 (Eng) DL/77FEB63

INSULIN RELEASE

KINETICS OF INSULIN SECRETION IN CHRONIC PANCREATITIS AND MILD MATURITY ONSET DIABETES. (EVIDENCE FOR GUT HORMONE ACTION BEYOND GLUCORECEPTOR AND CYCLIC ADENOSINE MONOPHOSPHATE MEDIATED INSULIN RELEASE). Botha JL, Vinik AI, Blake KC, Jackson WP *Eur J Clin Invest* 6: 365-72, 10 Sep 76 (Eng) DL/77FEB72

SOMATOSTATIN AND INSULIN RELEASE FROM ISOLATED RAT PANCREATIC ISLETS STIMULATED BY GLUCOSE. Schauder P, McIntosh C, Arends J, Arnold R, Frerichs H, Creutzfeldt W *FEBs Lett* 68: 225-7, 1 Oct 76 (Eng) DL/77FEB79

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerasi E *Diabetes Metab* 1: 51-6, Mar 75 (Eng) DL/77FEB88

POTENTIATION OF GLUCOSE-INDUCED INSULIN RELEASE BY GLUCOSE IN THE ISOLATED PANCREAS OF FED AND FASTED RATS. Efendic S, Cerasi E, Luft R, Gladnikoff G *Diabetes* 25: 949-54, Oct 76 (Eng) DL/77FEB102

IMPAIRED PLASMA INSULIN RESPONSE TO ARGININE IN HYPERTHYROIDISM. IMPORTANT ROLE OF THE RISE OF BLOOD GLUCOSE IN THE SECOND PHASE OF INSULIN RELEASE INDUCED BY ARGININE. Imura H, Seino Y, Ikeda M, Taminato T, Miyamoto Y *Diabetes* 25: 961-8, Oct 76 (Eng) DL/77FEB104

EFFECTS OF STREPTOZOTOCIN IN VITRO ON PROINSULIN BIOSYNTHESIS, INSULIN RELEASE AND ATP CONTENT OF ISOLATED RAT ISLETS OF LANGERHANS. Maldonato A, Trueheart PA, Renold AE, Sharp GW *Diabetologia* 12: 471-81, Oct 76 (Eng) DL/77FEB116

INSULIN RELEASE AND THE MOVEMENTS OF CALCIUM IN PANCREATIC ISLETS. PP. 211-26. Malaisse WJ, Herchuelz A, Levy J, Somers G, Devis G *Ino Carafoli E, et al., ed. Calcium transport in contraction and secretion. Amsterdam, North-Holland, 1975. QV 276 161c 1975.* (Eng) DL/77FEB179

INSULIN RELEASE AND PHOSPHATE ION EFFLUX FROM RAT PANCREATIC ISLETS INDUCED BY L-LEUCINE AND ITS NON-METABOLIZABLE ANALOGUE, 2-AMINO-BICYCLO[2.2.1]HEPTANE-2-CARBOXYLIC ACID. Freinkel N, Younsi CE, Dawson RMC *Proc Natl Acad Sci USA* 73: 3403-7, Oct 76 (Eng) DL/77FEB358

INHIBITION OF THE GLUCOSE INDUCED INSULIN RELEASE BY SOMATOSTATIN IN THE ISOLATED PERFUSED RAT PANCREAS. ACTION OF CYCLIC AMP, GLUCAGON AND GLIBENCLAMIDE. Osorio J, Campillo JE, de los Arcos JG, Pages I, Rodriguez E, Marasco M, Melani F *Rev Esp Fisiol* 32: 211-6, Sep 76 (Eng) DL/77FEB372

INOSINE-STIMULATED INSULIN RELEASE AND METABOLISM OF INOSINE IN ISOLATED MOUSE PANCREATIC ISLETS. Capito K, Hedeskov CJ *Biochem J* 158: 335-40, 15 Aug 76 (Eng) DL/77FEB505

INSULIN RESISTANCE

INSULIN RESISTANCE AND RELATED ELECTRICAL ACTIVITY OF THE SMALL INTESTINE. Ruckebusch M, Weekes TE *Experientia* 32: 1163-5, 15 Sep 76 (Eng) DL/77FEB76

THE METABOLIC FATE OF PLASMA LIPOPROTEINS IN NORMAL SUBJECTS AND IN PATIENTS WITH INSULIN RESISTANCE AND ENDOGENOUS HYPERTRIGLYCERIDAEMIA. Kissebah AH, Alfarsi S, Adams PW, Wynn V *Diabetologia* 12: 501-9, Oct 76 (Eng) DL/77FEB119

USE OF SULFATED INSULIN IN INSULIN RESISTANCE (LETTER). Bartle WR *Am J Hosp Pharm* 33: 874-9, Sep 76 (Eng) DL/77FEB466

INSULIN RESISTANT

PREMATURE ERUPTION AND MACRODONIA ASSOCIATED WITH INSULIN RESISTANT DIABETES AND PINEAL HYPERPLASIA. REPORT OF TWO CASES. Holmes J, Tanner MS *Br Dent J* 141: 280-4, 2 Nov 76 (Eng) DL/77FEB4

INSULIN RESISTANT DIABETES MELLITUS WITHOUT THE PRESENCE OF INSULIN ANTIBODIES. A CASE REPORT. Pav J, Sramkova J, Matys Z *Endokrinologie* 67: 373-6, 1976 (Eng) DL/77FEB71

INSULIN RESPONDER

[PROPORTION OF LOW INSULIN RESPONDERS TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL)] Vague P, Ramahandridona G, Vague J *Diabetes Metab* 1: 45-50, Mar 75 (Fre) DL/77FEB87

INSULIN RESPONSE

FEED-BACK INHIBITION OF INSULIN SECRETION IN SUBJECTS WITH HIGH AND LOW INSULIN RESPONSE TO GLUCOSE. Cerasi E *Diabetes Metab* 1: 73-6, Jun 75 (Eng) DL/77FEB94

[CLINICAL STUDIES ON INSULIN RESPONSE TO GLUCOSE TOLERANCE TEST IN PATIENTS WITH PULMONARY TUBERCULOSIS (AUTHORS TRANSL)] Oe N *Kekkaku* 51: 313-28, 15 Aug 76 (Jpn) DL/77FEB222

METHYLGUANIDINE AND INSULIN RESPONSE IN PATIENTS ON MAINTENANCE HAEMODIALYSIS (LETTER). Ferrannini E, Navalesi R, Pilo A, Morelli E *Lancet* 2: 1028-9, 6 Nov 76 (Eng) DL/77FEB252

INSULIN SECRETION

KINETICS OF INSULIN SECRETION IN CHRONIC PANCREATITIS AND MILD MATURITY ONSET DIABETES. (EVIDENCE FOR GUT HORMONE ACTION BEYOND GLUCORECEPTOR AND CYCLIC ADENOSINE MONOPHOSPHATE MEDIATED INSULIN RELEASE). Botha JL, Vinik AI, Blake KC, Jackson WP *Eur J Clin Invest* 6: 365-72, 10 Sep 76 (Eng) DL/77FEB72

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL)] Leclercq-Meyer V, Malaisse WJ *Diabetes Metab* 1: 119-22, Jun 75 (Fre) DL/77FEB93

FEED-BACK INHIBITION OF INSULIN SECRETION IN SUBJECTS WITH HIGH AND LOW INSULIN RESPONSE TO GLUCOSE. Cerasi E *Diabetes Metab* 1: 73-6, Jun 75 (Eng) DL/77FEB94

INSULIN SECRETION AND BIOSYNTHESIS IN SUCCOSE FED RATS. Laube H, Schatz H, Nierle C, Fussganger R, Pfeiffer EF *Diabetologia* 12: 441-6, Oct 76 (Eng) DL/77FEB112

THE INHIBITION OF INSULIN SECRETION FROM THE PERFUSED RAT PANCREAS AFTER THYROIDINE TREATMENT. Lenzen S, Joost HG, Hasselblatt A *Diabetologia* 12: 495-500, Oct 76 (Eng) DL/77FEB118

EVIDENCE FOR A HYPOPHYSAL FACTOR THAT STIMULATES INSULIN SECRETION BY THE PANCREAS (INSULOTROPHINE) Chieri RA, Basabe JC, Farina JM *Horm Metab Res* 8: 329-32, Sep 76 (Eng) DL/77FEB137

IONOPHORE A23187-INDUCED INSULIN SECRETION IN THE ISOLATED, PERFUSED DOG PANCREAS. Conaway HH, Griffey MA, Marks SR, Whitney JE *Horm Metab Res* 8: 351-3, Sep 76 (Eng) DL/77FEB140

GROWTH HORMONE AND INSULIN SECRETION. PP. 116-26. Bennett LL, Curry DL *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975.* (Eng) DL/77FEB180

SOMATOSTATIN, A HORMONE OF THE ALPHA 1-CELLS OF THE PANCREATIC ISLETS AND ITS INFLUENCE ON THE SECRETION OF INSULIN AND GLUCAGON. PP. 216-21. Efendic S, Hokfelt T, Luft R *Ino Pecile A, Muller EE, ed. Growth hormone and re-*

INSULIN SECRETORY RESPONSE

lated peptides. Amsterdam, *Excerpta Medica*, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB190

INSULIN SECRETION IN MIGRAINE: INFLUENCE ON THE BLOOD LEVELS OF TRYPTOPHAN. Poloni M, Nappi G, Bono G, Roggi C, Arpesella M, Virgilio P *Monogr Neural Sci* 3: 67-70, 1976 (Eng) DL/77FEB322

EFFECT OF HEPARIN ON INSULIN SECRETION IN VIVO AND IN VITRO. Orosz L *Res Exp Med (Berl)* 167: 239-54, 2 Jul 76 (Eng) DL/77FEB377

[MODIFICATION OF INSULIN-SECRETION, INDUCED BY GLUCOSE, OF THE ISOLATION-PERFUSED RAT PANCREAS USING TOLBUTAMIDE, GLUCOSAMINE, DIAZOXIDE, GLUCAGON AND ENDOGENOUS INSULIN] Bierwolf B, Blech W *Acta Biol Med Ger* 35: 583-95, 1976 (Ger) DL/77FEB450

STUDIES WITH THE AUTOTRANSPLANTED OVINE PANCREAS: GLUCAGON AND INSULIN SECRETION. Arcus AC, Ellis MJ, Kirk RD, Beaven DW, Donald RA, Hart DS, Holland GW, Redekopp C *Aust J Biol Sci* 29: 223-36, Jul 76 (Eng) DL/77FEB496

INSULIN SECRETORY RESPONSE

[A STUDY OF ROENTGENOLOGIC AORTIC CALCIFICATION, GLUCOSE TOLERANCE, AND INSULIN SECRETORY RESPONSE (AUTHORS TRANSL)] Tanaka T, Seki A, Fujii J, Kuzuya N *J Jpn Soc Intern Med* 65: 569-74, 10 Jun 76 (Jpn) DL/77FEB195

INSULIN, SERUM

SERUM LIPID CHANGES DURING CONTRACEPTIVE ADMINISTRATION IN OBESE WOMEN: RELATION TO SERUM INSULIN LEVELS. Gersberg H, Hulst M, Galler M *J Clin Endocrinol Metab* 43: 861-5, Oct 76 (Eng) DL/77FEB168

SERUM INSULIN SECRETION BY ADULT MALAYSIANS. Jones JJ, Aimt PP, Owyong LY, Kuty MK *Med J Malaysia* 30: 285-6, Jun 76 (Eng) DL/77FEB318

INSULIN STIMULATION

INSULIN STIMULATION OF HEART GLYCOGEN SYNTHASE D PHOSPHATASE (PROTEIN PHOSPHATASE). Nuttali FO, Gannon MC, Corbett VA, Wheeler MP *J Biol Chem* 251: 6724-9, 10 Nov 76 (Eng) DL/77FEB160

INSULIN, SULFATED

USE OF SULFATED INSULIN IN INSULIN RESISTANCE [LETTER]. Bartle WR *Am J Hosp Pharm* 33: 874-9, Sep 76 (Eng) DL/77FEB466

INSULIN TREATMENT

INSULIN TREATMENT OF GESTATIONAL DIABETICS. Drazancic A, Kuvacic I *Acta Med Iugosl* 30: 341-53, 1976 (Eng) DL/77FEB459

INSULIN, TRIACETYLATED

TRIACTYLATED INSULIN: BIOLOGIC ACTIVITY AND RESISTANCE TO DEGRADATION. Kaplan SA, Morris JW, Davidson MB, Gerschenson LE, Scott M *Metabolism* 25: 1209-16, Nov 76 (Eng) DL/77FEB261

INSULIN-GLUCAGON FEEDBACK

INTRASLET NEGATIVE INSULIN-GLUCAGON FEEDBACK. Samols E, Harrison J *Metabolism* 25: 1443-7, Nov 76 (Eng) DL/77FEB293

INSULINOMA

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabete Metab* 1: 7-11, Mar 75 (Eng) DL/77FEB890

HIGH CONCENTRATION OF GABA AND HIGH GLUTAMATE DECARBOXYLASE ACTIVITY IN RAT PANCREATIC ISLETS AND HUMAN INSULINOMA. Okada Y, Taniguchi H, Shimada C *Science* 194: 620-2, 5 Nov 76 (Eng) DL/77FEB398

HISTOLOGIC CHARACTERISTICS OF INSULINOMAS AND GASTRINOMAS. VALUE OF ARGYROPHILIA, METACHROMASIA, IMMUNOHISTOLOGY, AND ELECTRON MICROSCOPY FOR THE IDENTIFICATION OF GASTROINTESTINAL AND PANCREATIC ENDOCRINE CELLS AND THEIR TUMORS. Woodtli W, Hedinger C *Virchows Arch [Pathol Anat]* 371: 331-50, 7 Oct 76 (Eng) DL/77FEB425

INSULOMA, PANCREAS

[SCINTIGRAPHY OF THE PANCREAS IN INSULOMA] Romanova A, Zografski A, Kaneti Ia *Vutr Boles* 14: 123-7, 1975 (Bul) *DL/77FEB682

INSULOTROPHINE

EVIDENCE FOR A HYPOPHYSEAL FACTOR THAT STIMULATES INSULIN SECRETION BY THE PANCREAS (INSULOTROPHINE) Chieri RA, Basabe JC, Farina JM *Horm Metab Res* 8: 329-32, Sep 76 (Eng) DL/77FEB137

INTENSIVE CARE

INTENSIVE CARE OF THE PREGNANT DIABETIC. Gugliucci CL, OSullivan MJ, opperman W, Gordon M, Stone ML *Am J Obstet Gynecol* 125: 435-41, 15 JUN 76 (Eng) DL/77FEB469

INTERCELLULAR MATRIX

CHARACTERIZATION OF LIPIDS ASSOCIATED WITH MACROMOLECULES OF THE INTERCELLULAR MATRIX OF HUMAN AORTA. Claire M, Jacotot B, Robert L *Connect Tissue Res* 4: 61-71, 1976 (Eng) *DL/77FEB544

INTERMEDIATE

THE EFFECT OF HYPERTHERMIA UPON OXYGEN CONSUMPTION AND UPON ORGANIC PHOSPHATES, GLYCOLYTIC METABOLITES, CITRIC AND CYCLE INTERMEDIATES AND ASSOCIATED AMINO ACIDS IN RAT CEREBRAL CORTICES. Carlsson C, Hagerdal M, Siesjo BK *J Neurochem* 26: 1001-6, May 76 (Eng) *DL/77FEB599

INTESTINAL

EFFECTS OF DIABETES ON INTESTINAL MAGNESIUM ABSORPTION IN THE RAT. Miller DL, Schedl HP *Am J Physiol* 231: 1039-42, Oct 76 (Eng) DL/77FEB473

INTESTINAL ABSORPTION

INTESTINAL ABSORPTION CHARACTERISTICS OF BUFORMIN AND PHENFORMIN IN RATS. Kojima S, Tanaka R, Hamada C *Chem Pharm Bull (Tokyo)* 24: 1555-60, Jul 76 (Eng) DL/77FEB42

INTESTINAL BY-PASS

[INTESTINAL BY-PASS FOR OBESITY (AUTHORS TRANSL)] Van Baden M *Acta Chir Belg* 75: 269-93, May 76 (Dut) DL/77FEB454

INTESTINAL DISEASE

HYPERALIMENTATION IN THE MANAGEMENT OF CHRONIC INFLAMMATORY INTESTINAL DISEASE. Dean RE, Campos MM, Barrett B *Dis Colon Rectum* 19: 601-4, Oct 76 (Eng) DL/77FEB62

INTESTINAL GLUCOSE TRANSPORT

EFFECT OF CHRONIC ADMINISTRATION OF NICOTINE ON METABOLIC RESPONSES AND INTESTINAL GLUCOSE TRANSPORT. PP. 127-36. Bhagat B, van Beaumont W, Ellert MS In0 Singh JM, Lal H, ed. *Drug addiction. Vol 40 New aspects of analytical and clinical toxicology*. New York, Stratton, 1974. W3 IN917KC 1973d. (Eng) [15] *DL/77FEB593

INTESTINE

THE CONTRIBUTION OF THE PANCREAS AND THE INTESTINE TO THE REGULATION OF LIPOLYSIS IN BIRDS. 2. IMPAIRED LIPOLYTIC ACTIVITY OF PANCREATIC GLUCAGON IN THE ABSENCE OF EITHER THE PANCREAS OR THE INTESTINE IN THE CHICKEN. Krug E, Gross R, Mialhe P *Horm Metab Res* 8: 345-50, Sep 76 (Eng) DL/77FEB139

INTESTINE, SMALL

INSULIN RESISTANCE AND RELATED ELECTRICAL ACTIVITY OF THE SMALL INTESTINE. Ruckebusch M, Weekes TE *Experientia* 32: 1163-5, 15 Sep 76 (Eng) DL/77FEB76

EFFECT OF CHRONIC GLUCAGON-ADMINISTRATION ON THE DIGESTIVE AND ABSORPTIVE FUNCTION OF RAT SMALL INTESTINE IN VIVO. Caspary WF, Lucke H *Res Exp Med (Berl)* 167: 1-13, 27 Feb 76 (Eng) DL/77FEB373

EFFECT OF ETHYL ACETATE ON THE TRANSPORT OF SODIUM AND GLUCOSE IN THE HAMSTER SMALL INTESTINE IN VITRO. Esposito G, Faelli A, Capraro V *Biochim Biophys Acta* 426: 489-98, 19 Mar 76 (Eng) *DL/77FEB520

EFFECTS OF NA⁺ DEPLETION, THEOPHYLLINE AND 2,4-DINITROPHENOL ON NEUTRAL AMINO ACID INFLUX AND CYCLIC ADENOSINE 3':5'-MONOPHOSPHATE LEVELS IN CHICKEN SMALL INTESTINE. Burrill PH, Sattelmeyer PA, Lerner J *Comp Biochem Physiol [C]* 53: 95-9, 1976 (Eng) *DL/77FEB543

[STRUCTURAL AND FUNCTIONAL CHANGES IN THE SMALL INTESTINE IN PERITONITIS] Popov VA *Patol Fiziol Eksp Ter* 32-7, Jan-Feb 76 (Rus) *DL/77FEB619

INTRAHYPOTHALAMIC INJECTION

SUPPRESSION OF FOOD INTAKE IN DIABETIC RATS BY VOLUNTARY CONSUMPTION AND INTRAHYPOTHALAMIC INJECTION OF GLUCOSE. Panksepp J, Meeker R *Physiol Behav* 16: 763-70, Jun 76 (Eng) DL/77FEB366

INTRAMEMBRANE PARTICLE

FLUIDITY IN MITOCHONDRIAL MEMBRANES: THERMOTROPIC LATERAL TRANSLATIONAL MOTION OF INTRAMEMBRANE PARTICLES. Hochli M, Hackenbrock

CR Proc Natl Acad Sci USA 73: 1636-40, May 76 (Eng) *DL/77FEB625

INTRAOCULAR PRESSURE

ELEVATION OF INTRAOCULAR PRESSURE AFTER PARS PLANA VITRECTOMY. Weinberg RS, Peyman GA, Huamonte FU *Albrecht von Graefes Arch Klin Ophthalmol* 200: 157-61, 30 Aug 76 (Eng) DL/77FEB479

INTRAPORTAL

ISLET TRANSPLANTATION IN EXPERIMENTAL DIABETES OF THE RAT. V. REGRESSION OF GLOMERULAR LESIONS IN DIABETIC RATS AFTER INTRAPORTAL TRANSPLANTATION OF ISOGENEIC ISLETS. PRELIMINARY RESULTS. Federlin K, Bretzel RG, Schmidtchen U *Horm Metab Res* 8: 404-6, Sep 76 (Eng) DL/77FEB148

INTRAVENOUS

[INTRAVENOUS AND ORAL GLUCOSE: PRODUCTION OF INSULIN AND GROWTH HORMONE IN THE NEWBORN INFANT] Dorantes Alvarez L, De Los Monteros Mena AE, Matus Scucira A, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 979-92, Sep-Oct 76 (Spa) DL/77FEB3

EFFECTS OF ACUTE INSULIN WITHDRAWAL AND ADMINISTRATION ON PLASMA GLUCAGON RESPONSES TO INTRAVENOUS ARGinine IN INSULIN-DEPENDENT DIABETIC SUBJECTS. Gerich JE, Lorenzi M, Tsalikian E, Bohannon NV, Schneider V, Karam JH, Forsham PH *Diabetes* 25: 955-60, Oct 76 (Eng) DL/77FEB103

IODINATION

EFFECTS OF IODINATION OF TYROSYL RESIDUES ON THE BINDING AND ACTION OF GLUCAGON AT ITS RECEPTOR. Lin MC, Nicosia S, Rodbell M *Biochemistry* 15: 4537-40, 5 Oct 76 (Eng) DL/77FEB9

IODOACETATE

EFFECTS OF IODOACETATE AND FLUORIDE ON ISLATE RESPIRATION AND INSULIN BIOSYNTHESIS. Lin BJ, Henderson MJ, Levine BB, Nagy BR, Nagy EM *Horm Metab Res* 8: 353-8, Sep 76 (Eng) DL/77FEB141

ION

MECHANISM OF ACTION OF HYPOTHALAMIC RELEASING HORMONES. ROLE OF IONS IN THE RELEASE OF ADENOHYPHYSIAL HORMONES. PP. 207-15. Kraicer J In O Lederis K, Cooper KE, ed. *Recent studies of hypothalamic function*. Basel, Karger, 1974. WL 312 165r 1973. (Eng) [18] *DL/77FEB591

ION, CALCIUM

AN EXPERIMENT ELIMINATING THE ROTATING CARRIER MECHANISM FOR THE ACTIVE TRANSPORT OF CA ION IN SARCOPLASMIC RETICULUM MEMBRANES. Dutton A, Rees ED, Singer SJ *Proc Natl Acad Sci USA* 73: 1532-6, May 76 (Eng) *DL/77FEB624

ION PAIR

THE MOVEMENT OF ION PAIRS ACROSS BILAYER LIPID MEMBRANES. Mangel M, Jendrasiak GL *Chem Phys Lipids* 16: 167-80, Mar 76 (Eng) *DL/77FEB535

IONIC STRENGTH, LOW

CARNITINE PALMITYLTRANSFERASE ACTIVITY DURING MYOCARDIAL ISCHEMIA AND AT LOW IONIC STRENGTHS. McMillin Wood J *Recent Adv Stud Cardiac Struct Metab* 7: 335-9, 1975 (Eng) *DL/77FEB673

IONOPHORE A23187

IONOPHORE A23187-INDUCED INSULIN SECRETION IN THE ISOLATED, PERFUSED DOG PANCREAS. Conaway HH, Griffey MA, Marks SR, Whitney JE *Horm Metab Res* 8: 351-3, Sep 76 (Eng) DL/77FEB140

ISCHEMIA

REGIONAL ISCHEMIC INFARCTS OF THE RETINA. Foos RY *Albrecht von Graefes Arch Klin Ophthalmol* 200: 183-94, 1976 (Eng) DL/77FEB481

EFFECTS OF ANOXIA AND ISCHEMIA ON PROTEIN SYNTHESIS IN PERFUSED RAT HEARTS. Kao R, Rannels DE, Morgan HE *Circ Res* 38: i124-30, May 76 (Eng) *DL/77FEB536

EFFECTS OF REGIONAL ISCHEMIA ON METABOLISM OF GLUCOSE AND FATTY ACIDS. RELATIVE RATES OF AEROBIC AND ANAEROBIC ENERGY PRODUCTION DURING MYOCARDIAL INFARCTION AND COMPARISON WITH EFFECTS OF ANOXIA. Opie LH *Circ Res* 38: i52-74, May 76 (Eng) *DL/77FEB539

MYOCARDIAL ION AND LIPID CHANGES DURING ISCHEMIA AND CATECHOLAMINE INDUCED NECROSIS: RELATION TO REGIONAL BLOOD FLOW. Regan TJ, Markov A, Khan MI, Jesrani MU, Oldewurtel HA, Ettinger PO *Recent Adv Stud Cardiac Struct Metab* 1: 656-64, 1972 (Eng) *DL/77FEB649

MYOCARDIAL POTASSIUM LOSS DURING ISCHEMIA. Case RB *Recent Adv Stud Cardiac Struct Metab* 1: 665-72, 1972 (Eng) *DL/77FEB650

TRANSMURAL GRADIENTS IN THE ISCHEMIC DOG LEFT VENTRICLE: METABOLISM OF ENDOGENOUS TRIGLYCERIDES AND GLYCOPEN. Crass MF 3d, Holsinger JW Jr, Shipp JC, Eliot RS, Pieper GM *Recent Adv Stud Cardiac Struct Metab* 7: 225-30, 1975 (Eng) *DL/77FEB662

EFFECT ON MYOCARDIAL METABOLIC PATTERN OF LOCAL COMPLETE AND INCOMPLETE ISCHEMIA. Iselhard W, Geppert E, Menge M, Lauterjung KL, Vogel W, Witte J, Heugel E *Recent Adv Stud Cardiac Struct Metab* 7: 231-6, 1975 (Eng) *DL/77FEB664

ISCHEMIA, MYOCARDIAL

CONTROL OF ENERGY PRODUCTION IN MYOCARDIAL ISCHEMIA. Shrago E, Shug AL, Sul H, Bittar N, Folts JD *Circ Res* 38: i75-9, May 76 (Eng) *DL/77FEB540

CARNITINE PALMITYLTRANSFERASE ACTIVITY DURING MYOCARDIAL ISCHEMIA AND AT LOW IONIC STRENGTHS. McMillin Wood J *Recent Adv Stud Cardiac Struct Metab* 7: 335-9, 1975 (Eng) *DL/77FEB673

ISCHEMIA PERFUSION

INHIBITION OF GLYCOLYSIS IN HEARTS DURING ISCHEMIC PERFUSION. Neely JR, Whitmer JT, Rovetto MJ *Recent Adv Stud Cardiac Struct Metab* 7: 243-8, 1975 (Eng) *DL/77FEB665

ISCHEMIC HEART DISEASE

[DIABETES MELLITUS AS RISK FACTOR OF ISCHEMIC HEART DISEASE AND REFLECTED IN SERUM LIPID LEVELS.] Kusa O *Bratisl Lek Listy* 66: 28-37, 1 Jul 76 (Slo) DL/77FEB35

[AMOUNT OF ACETONE AND ETHYL ALCOHOL IN THE BLOOD AND URINE OF PATIENTS WITH DIABETES MELLITUS AND ISCHEMIC HEART DISEASE] Kamyshova EP, Sorochkina RM, Kapatsinskaja LK, Romanova LN, Danilova MI *Sov Med* 147-8, Apr 76 (Rus) DL/77FEB403

ISCHEMIC MYOCARDIUM

LACK OF A SIGNIFICANT PROTECTIVE EFFECT OF AUGMENTED CIRCULATING GLUCOSE ON THE ISCHEMIC MYOCARDIUM. BJ Spath JA, Ogletree ML, Lefer AM *Can J Physiol Pharmacol* 54: 423-9, Aug 76 (Eng) DL/77FEB36

CYCLIC AMP LEVELS IN THE ACUTELY ISCHEMIC MYOCARDIUM OF THE DOG AND GUINEA PIG. Wollenberger A, Krause H, Heier G *Recent Adv Stud Cardiac Struct Metab* 1: 27-9, 1972 (Eng) *DL/77FEB642

INHIBITED ADENINE NUCLEOTIDE TRANSLOCATION IN MITOCHONDRIA ISOLATED FROM ISCHEMIC MYOCARDIUM. Bittar N, Shug AL, Koke JR, Folts JD, Shrago ES *Recent Adv Stud Cardiac Struct Metab* 7: 137-43, 1975 (Eng) *DL/77FEB658

ISLET

PANCREATIC ISLET CELL TRANSPLANTATION AND DIABETES THERAPY. Monaco AP, Codish SD *Compr Ther* 2: 29-37, Nov 76 (Eng) DL/77FEB50

ULTRASTRUCTURE OF B-CELLS OF LANGERHANS ISLETS IN RATS AFTER THE ADMINISTRATION OF L-LEUCINE. Galabova R, Petkov P *Endocrinol Exp (Bratisl)* 10: 217-23, 1976 (Eng) DL/77FEB67

ENHANCEMENT BY D2O OF GLUCOSE-INDUCED CYCLIC AMP ACCUMULATION IN RAT ISLETS OF LANGERHANS. Grill V, Cerasi E *FEBs Lett* 68: 165-9, 1 Oct 76 (Eng) DL/77FEB78

SOMATOSTATIN AND INSULIN RELEASE FROM ISOLATED RAT PANCREATIC ISLETS STIMULATED BY GLUCOSE. Schauder P, McIntosh C, Arends J, Arnold R, Frerichs H, Creutzfeldt W *FEBs Lett* 68: 225-7, 1 Oct 76 (Eng) DL/77FEB79

HYPERINSULINEMIA AND HYPERGLUCAGONEMIA FOLLOWING PANCREATIC ISLET TRANSPLANTATION IN DIABETIC RATS. Weber CJ, Hardy MA, Lerner RL, Felig P, Reemtsma K *Diabetes* 25: 944-8, Oct 76 (Eng) DL/77FEB101

PROINSULIN SYNTHESIS IN ISLETS OF LANGERHANS FROM SPINY MICE (ACOMYS CAHIRINUS). COMPARISON WITH RATS AND MICE. Trueheart PA, Maldonado A, Kaelin D, Renold AE, Sharp GW *Diabetologia* 12: 463-70, Oct 76 (Eng) DL/77FEB115

EFFECTS OF STREPTOZOTOCIN IN VITRO ON PROINSULIN BIOSYNTHESIS, INSULIN RELEASE AND ATP CONTENT OF ISOLATED RAT ISLETS OF LANGERHANS. Maldonado A, Trueheart PA, Renold AE, Sharp GW *Diabetologia* 12: 471-81, Oct 76 (Eng) DL/77FEB116

EFFECTS OF IODOACETATE AND FLUORIDE ON ISLATE RESPIRATION AND INSULIN BIOSYNTHESIS. Lin BJ, Henderson MJ, Levine BB, Nagy BR, Nagy EM *Horm Metab Res* 8: 353-8, Sep 76 (Eng) DL/77FEB141

ISLET BETA CELL

[32P] ORTHOPHOSPHATE EFFLUX FROM PANCREATIC ISLETS: GRADED RESPONSE TO GLUCOSE STIMULATION. Pierce M, Bukowiecki L, Asplund K, Freinkel N *Horm Metab Res* 8: 358-61, Sep 76 (Eng) DL/77FEB142

INSULIN BIOSYNTHESIS IN PANCREATIC ISLETS ISOLATED FROM STARVED MICE. Andersson A *Horm Metab Res* 8: 403-4, Sep 76 (Eng) DL/77FEB147

CALCIUM AND STIMULUS-SECRETION COUPLING IN PANCREATIC ISLET CELLS. PP. 203-10. Matthews EK *Ino Carafoli E, et al., ed. Calcium transport in contraction and secretion. Amsterdam, North-Holland, 1975. QV 276 161c 1975.* (Eng) DL/77FEB178

INSULIN RELEASE AND THE MOVEMENTS OF CALCIUM IN PANCREATIC ISLETS. PP. 211-26. Malaisse WJ, Herchuelz A, Levy J, Somers G, Devis G *Ino Carafoli E, et al., ed. Calcium transport in contraction and secretion. Amsterdam, North-Holland, 1975. QV 276 161c 1975.* (Eng) DL/77FEB179

SOMATOSTATIN, A HORMONE OF THE ALPHA I-CELLS OF THE PANCREATIC ISLETS AND ITS INFLUENCE ON THE SECRETION OF INSULIN AND GLUCAGON. PP. 216-21. Efendic S, Hokfelt T, Luft R *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975.* (Eng) DL/77FEB190

PANCREATIC ISLET INJURY INDUCED BY METHYL MERCURIC CHLORIDE LIGHT AND ELECTRON MICROSCOPIC STUDIES. Shigenaga K *Kumamoto Med J* 29: 67-81, 30 Jun 76 (Eng) DL/77FEB232

THE MICROANATOMY OF THE ISLETS OF LANGERHANS. Orci L *Metabolism* 25: 1303-13, Nov 76 (Eng) [30] DL/77FEB262

IMMUNOREACTIVE GLUCAGONS IN PANCREATIC ISLETS. Tager HS, Markese J *Metabolism* 25: 1343-6, Nov 76 (Eng) DL/77FEB270

INTRAISLET NEGATIVE INSULIN-GLUCAGON FEEDBACK. Samols E, Harrison J *Metabolism* 25: 1443-7, Nov 76 (Eng) DL/77FEB293

NEUROHUMORAL REGULATION OF THE PANCREATIC ISLET A AND B CELLS. Porte D Jr, Smith PH, Einsnick JW *Metabolism* 25: 1453-6, Nov 76 (Eng) [21] DL/77FEB296

INSULIN RELEASE AND PHOSPHATE ION EFFLUX FROM RAT PANCREATIC ISLETS INDUCED BY L-LEUCINE AND ITS NON-METABOLIZABLE ANALOGUE, 2-AMINO-BICYCLO[2.2.1]HEPTANE-2-CARBOXYLIC ACID. Freinkel N, Younsi CE, Dawson RMC *Proc Natl Acad Sci USA* 73: 3403-7, Oct 76 (Eng) DL/77FEB358

HIGH CONCENTRATION OF GABA AND HIGH GLUTAMATE DECARBOXYLASE ACTIVITY IN RAT PANCREATIC ISLETS AND HUMAN INSULINOMA. Okada Y, Taniguchi H, Shimada C *Science* 194: 620-2, 5 Nov 76 (Eng) DL/77FEB398

THE USE OF FICOLL IN THE SEPARATION OF VIABLE ISLETS OF LANGERHANS FROM THE RAT PANCREAS. Nash JR, Horlor M, Bell PR *Transplantation* 22: 411-2, Oct 76 (Eng) DL/77FEB415

TUMORS OF THE ISLETS OF LANGERHANS. Zollinger RM, Mazzaferri EL *Adv Surg* 10: 137-76, 1976 (Eng) [73] DL/77FEB464

INOSINE-STIMULATED INSULIN RELEASE AND METABOLISM OF INOSINE IN ISOLATED MOUSE PANCREATIC ISLETS. Capito K, Hedeskov CJ *Biochem J* 158: 335-40, 15 Aug 76 (Eng) DL/77FEB505

ISLET BETA CELL

EXTRACELLULAR CALCIUM AND ADRENERGIC AND CHOLINERGIC EFFECTS ON ISLET BETA-CELL FUNCTION. Burr IM, Slonim AE, Burke V, Fletcher T *Am J Physiol* 231: 1246-9, Oct 76 (Eng) DL/77FEB476

ISLET CELL

NEW TYPES OF ISLET CELLS IN A CYCLOSTOME, PETROMYZON MARINUS L. Brinn JE, Eppe A *Cell Tissue Res* 171: 317-29, 26 Aug 76 (Eng) DL/77FEB39

CLINICAL CORRELATIONS OF SERUM PROINSULIN-LIKE MATERIAL IN ISLET CELL TUMOURS. Alsever RN, Stjernholm MR, Sussman KE, Mako ME, Rubenstein AH *Diabetologia* 12: 527-30, Oct 76 (Eng) DL/77FEB123

FOETAL RAT PANCREAS IN ORGAN CULTURE. EFFECT OF CORTICOSTERONE CONCENTRATIONS ON THE ACINAR AND ISLET CELL COMPONENTS. McEvoy RC, Hegre OD, Lazarow A *Differentiation* 6: 17-26, 16 Mar 76 (Eng) DL/77FEB125

ISLET CELL CARCINOMA

PANCREATIC ISLET CELL CARCINOMA IN A DOG TREATED WITH STREPTOZOTOCIN. Meyer DJ *Am J Vet Res* 37: 1221-3, Oct 76 (Eng) DL/77FEB487

ISLET FUNCTION

CALCIUM-ANTAGONISTS AND ISLET FUNCTION. VI. EFFECTS OF BARIUM. Somers G, Devis G, van Obberghen E, Malaisse WJ *Pfluegers Arch* 365: 21-8, 3 Sep 76 (Eng) DL/77FEB339

ISLET TRANSPLANTATION

ISLET TRANSPLANTATION IN EXPERIMENTAL DIABETES OF THE RAT. V. REGRESSION OF GLOMERULAR LESIONS IN DIABETIC RATS AFTER INTRAPORTAL TRANSPLANTATION OF ISOGENEIC ISLETS. PRELIMINARY RESULTS. Federlin K, Bretzel RG, Schmidchen U *Horm Metab Res* 8: 404-6, Sep 76 (Eng) DL/77FEB148

ISOCALORIC

[BEHAVIOR OF KETONE BODIES, BLOOD LIPIDS AND OF VARIOUS LABORATORY-CHEMISTRY PARAMETERS DURING ISOCALORIC HIGH-CARBOHYDRATE AND HIGH-FAT REDUCING DIETS] Schubert WR, Vogel B, Schmullig RM, Eggstein M *Verh Dtsch Ges Inn Med* 81: 1397-1400, 1975 (Ger) *DL/77FEB684

ISOENZYME

ORGAN DISTRIBUTION OF RAT HISTIDINE-PYRUVATE AMINOTRANSFERASE ISOENZYMES. Noguchi T, Minatogawa Y, Okuno E, Kido R *Biochem J* 157: 635-41, 1 Sep 76 (Eng) DL/77FEB502

ISOPROTERENOL

HOLOCATALYTIC STATE OF ADENYLATE CYCLASE IN TURKEY ERYTHROCYTE MEMBRANES: FORMATION WITH GUANYLYLMIDODIPHOSPHATE PLUS ISOPROTERENOL WITHOUT EFFECT ON AFFINITY OF BETA-RECEPTOR. Spiegel AM, Brown EM, Fedak SA, Woodard CJ, Aurbach GD *J Cyclic Nucleotide Res* 2: 47-56, 1976 (Eng) *DL/77FEB583

ISOPTIN

[BEHAVIOUR OF SERUM CONCENTRATIONS OF GLUCOSE, IMMUNOREACTIVE INSULIN AND POTASSIUM IONS IN NEWBORNS AFTER LONG TERM OR CRASH TREATMENTS WITH PARTUSISTEN OR PARTUSISTEN IN COMBINATION WITH ISOPTIN (AUTHORS TRANSL.) Weidinger H, Mohr D, Haller K, Hiltmann WD, Vogel M *Z Geburtshilfe Perinatol* 180: 258-65, Aug 76 (Ger) DL/77FEB439

ISRAEL

NUTRITIONAL HEALTH IN A CHANGING SOCIETY - STUDIES FROM ISRAEL. Guggenheim K, Kaufmann NA *World Rev Nutr Diet* 24: 217-40, 1976 (Eng) [67] DL/77FEB436

JAPANESE

HLA AND JUVENILE DIABETES MELLITUS IN THE JAPANESE [LETTER]. Wakisaka A, Aizawa M, Matsuura N, Nakagawa S, Nakayama E *Lancet* 2: 970, 30 Oct 76 (Eng) DL/77FEB249

JOINT

BONE AND JOINT CHANGES IN THE DIABETIC FOOT. Buchman NH *J Am Podiatry Assoc* 66: 211-26, Apr 76 (Eng) DL/77FEB175

JUVENILE DIABETES

MODE OF PRESENTATION OF JUVENILE DIABETES. Hamilton DV, Mundia SS, Lister J *Br Med J* 2: 211-2, 24 Jul 76 (Eng) DL/77FEB20

[EXPERIENCES WITH MONOCOMPONENT (MC) INSULIN IN THE TREATMENT OF JUVENILE DIABETES] Aronson S, Engleson G *Lakartidningen* 73: 3982-4, 10 Nov 76 (Swe) DL/77FEB243

JUVENILE DIABETES MELLITUS

HLA AND JUVENILE DIABETES MELLITUS IN THE JAPANESE [LETTER]. Wakisaka A, Aizawa M, Matsuura N, Nakagawa S, Nakayama E *Lancet* 2: 970, 30 Oct 76 (Eng) DL/77FEB249

JUVENILE ONSET DIABETES MELLITUS

EXOCRINE PANCREATIC FUNCTION IN JUVENILE-ONSET DIABETES MELLITUS. Frier BM, Saunders JH, Wormsley KG, Bouchier JA *Gut* 17: 685-91, Sep 76 (Eng) DL/77FEB133

KETOACIDOSIS, DIABETIC

NEW INSULIN REGIMENS FOR SEVERE DIABETIC KETOSIS. Anonymous *Drug Ther Bull* 14: 77-9, 24 Sep 76 (Eng) DL/77FEB63

RECURRENT DIABETIC KETOACIDOSIS: COMPARISON OF THERAPY WITH LOW DOSE AND HIGH DOSE INSULIN. Guerra SM *J Tenn Med Assoc* 69: 781-4, Nov 76 (Eng) DL/77FEB233

[TREATMENT OF DIABETIC KETO-ACIDOSIS THROUGH CONTINUOUS INSULIN INFUSION] Mirozue J, Mion C, Monnier L, Beraud JJ, Selam JL *Nouv Presse Med* 5: 2444-6, 6 Nov 76 (Fre) DL/77FEB342

[USE OF TRASLYOL IN DIABETIC KETOACIDOSIS] Zelinskii BA, Kogut ES *Vrach Delo* 78-80, Sep 76 (Rus) DL/77FEB429

KETOALKALOSIS

DIABETIC KETOALKALOSIS [LETTER]. Melrose E, Morgan A, Harrower AD, Smith AW *Br Med J* 2: 237, 24 Jul 76 (Eng) DL/77FEB21

Diabetes Literature—Keyword Index

LENS

DIABETIC KETOALKALOSIS [LETTER]. Shirley R, Martin JV *Br Med J* 2: 943, 16 Oct 76 (Eng) DL/77FEB28

KETOGENESIS

GLUCAGON AND KETOGENESIS. McGarry JD, Robles-Valdes C, Foster DW *Metabolism* 25: 1387-9, Nov 76 (Eng) DL/77FEB280

KETONE BODY

[BEHAVIOR OF KETONE BODIES, BLOOD LIPIDS AND OF VARIOUS LABORATORY-CHEMISTRY PARAMETERS DURING ISO-CALORIC HIGH-CARBOHYDRATE AND HIGH-FAT REDUCING DIETS] Schubert WR, Vogel B, Schmullig RM, Eggstein M *Verh Dtsch Ges Inn Med* 81: 1397-1400, 1975 (Ger) *DL/77FEB684

KETONIC DIET

KETONIC DIET IN THE MANAGEMENT OF PYRUVATE DEHYDROGENASE DEFICIENCY. Falk RE, Cederbaum SD, Blass JP, Gibson GE, Kark RA, Carrel RE *Pediatrics* 58: 713-21, Nov 76 (Eng) DL/77FEB338

KIDNEY

ELEVATED KIDNEY GLUCOSYLTRANSFERASE ACTIVITY IN GENETIC PRE-DIABETIC MICE. Reddi AS, Oppermann W, Reddy MP, Velasco CA, Camerini-Davalos RA *Experientia* 32: 1237-8, 15 Oct 76 (Eng) DL/77FEB75

MECHANISM OF MALEIC ACID-INDUCED GLUCOSURIA IN DOG KIDNEY. Silverman M, Huang L *Am J Physiol* 231: 1024-32, Oct 76 (Eng) DL/77FEB472

GENETICS OF MURINE LIVER AND KIDNEY ARYSULFATASE B. Daniel WL *Genetics* 82: 477-91, 25 Mar 76 (Eng) *DL/77FEB559

KIDNEY TRANSPLANTATION

[STERIOD DIABETES - VERY SIGNIFICANT COMPLICATION OF IMMUNOSUPPRESSION FOLLOWING THE KIDNEY TRANSPLANTATION] Boskovic S, Haracic M *Med Arh* 30: 195-7, May-Jun 76 (Ser) DL/77FEB239

KINASE

MULTIPLE FORMS OF GLYCOGEN SYNTHASE KINASE: ISOLATION OF FORMS WHICH ARE INDEPENDENT OF CYCLIC AMP. Reimann EM, Schlender KK *J Cyclic Nucleotide Res* 2: 39-46, 1976 (Eng) *DL/77FEB582

KINASE, ACETATE

ACETATE KINASE FROM VEILLONELLA ALCAESCENS. REGULATION OF ENZYME ACTIVITY BY SUCCINATE AND SUBSTRATES. Bowman CM, Valdez RO, Nishimura JS *J Biol Chem* 251: 3117-21, 25 May 76 (Eng) *DL/77FEB573

KINASE, PROTEIN

STUDIES ON THE ROLE OF CAMP-DEPENDENT PROTEIN KINASE IN THE ACTIONS OF GLUCAGON AND CATECHOLAMINES ON LIVER GLYCOGEN METABOLISM. Cherrington AD, Exton JH *Metabolism* 25: 1351-4, Nov 76 (Eng) DL/77FEB272

PROTEIN KINASES AND THEIR SUBSTRATES IN BROWN ADIPOSE TISSUE FROM NEW-BORN RATS. Knight BL *Biochim Biophys Acta* 429: 798-808, 13 May 76 (Eng) *DL/77FEB521

INFLUENCE ON ADIPOCYTE PLASMA MEMBRANE BOUND PROTEIN KINASE BY FEED-BACK REGULATOR. Ho R, Russell T, Asakawa T, Snyder RP *J Cyclic Nucleotide Res* 1: 349-58, 1975 (Eng) *DL/77FEB580

STUDIES ON CYCLIC GMP-DEPENDENT PROTEIN KINASE PROPERTIES BY BLUE DEXTRAN-SEPHAROSE CHROMATOGRAPHY. Kobayashi R, Fang VS *Biochem Biophys Res Commun* 69: 1080-7, 19 Apr 76 (Eng) *DL/77FEB716

KINASE, PYRUVATE

POSSIBLE ROLE OF PYRUVATE KINASE IN THE HORMONAL CONTROL OF DIHYDROXYACETONE GLUCONEOGENESIS IN ISOLATED HEPATOCYTES. Pilakis SJ, Claus TH, Riou JP, Park CR *Metabolism* 25: 1355-60, Nov 76 (Eng) DL/77FEB273

CYCLIC NUCLEOTIDE-, PYRUVATE- AND HORMONE-INDUCED CHANGES IN PYRUVATE KINASE ACTIVITY IN ISOLATED RAT HEPATOCYTES. van Berkel TJ, Kruijt JK, Koster JF, Hulsmann WC *Biochem Biophys Res Commun* 72: 917-25, 4 Oct 76 (Eng) DL/77FEB511

KINETIC

ESTIMATES OF THE KINETIC PARAMETERS OF GROWTH HORMONE METABOLISM IN FED AND FASTED CALVES AND SHEEP. Trenkle A *J Anim Sci* 43: 1035-43, Nov 76 (Eng) DL/77FEB153

MITOGEN RECEPTORS IN CHICK EMBRYO FIBROBLASTS. KINETICS, SPECIFICITY, UNMASKING, AND SYNTHESIS OF 125I-INSULIN BINDING SITES. Raizada MK, Perdue JF *J Biol Chem* 251: 6445-55, 25 Oct 76 (Eng) DL/77FEB159

INSULIN KINETIC, GLUCOSE TOLERANCE, AND LIPID METABOLISM IN GENETICALLY SPONTANEOUS-HYPERTENSIVE RATS. Baumann R, Moritz V, Godicke W, Postnow JW, Ziegler M *Acta Biol Med Ger* 35: k 33-9, 1976 (Eng) DL/77FEB451

THE KINETIC MECHANISM OF BOVINE MILK GALACTOSYLTRANSFERASE. THE ROLE OF ALPHA-LACTALBUMIN. Bell JE, Beyer TA, Hill RL *J Biol Chem* 251: 3003-13, 25 May 76 (Eng) *DL/77FEB571

KINETICS, GLUCOSE

EFFECTS OF ARTERIAL VERSUS VENOUS SAMPLING ON ANALYSIS OF GLUCOSE KINETICS IN MAN. McGuire EA, Helderman JH, Tobin JD, Andres R, Berman M *Biochem J* 157: 565-73, 1 Sep 76 (Eng) DL/77FEB500

KUPFFER CELL

STUDIES ON UREA SYNTHESIS, INSULIN DEGRADATION AND PHAGOCYTOSIS BY ISOLATED RAT KUPFFER CELLS. Wagle SR, Hofmann F, Decker K *Biochem Biophys Res Commun* 72: 448-55, 20 SEP 76 (Eng) DL/77FEB509

LABOR

[CLINICAL PROBLEMS OF PREMATURE LABOR. 1. DIAGNOSIS OF THREATENING PREMATURE LABOR AND THE SCREENING PROCEDURE] Bayer H, Issel EP, Agricola H, Roigas E *Zentralbl Gynaekol* 98: 1025-34, 1976 (Ger) DL/77FEB447

LABORATORY

[BEHAVIOR OF KETONE BODIES, BLOOD LIPIDS AND OF VARIOUS LABORATORY-

CHEMISTRY PARAMETERS DURING ISO-CALORIC HIGH-CARBOHYDRATE AND HIGH-FAT REDUCING DIETS] Schubert WR, Vogel B, Schmullig RM, Eggstein M *Verh Dtsch Ges Inn Med* 81: 1397-1400, 1975 (Ger) *DL/77FEB684

LACTALBUMIN, ALPHA

THE KINETIC MECHANISM OF BOVINE MILK GALACTOSYLTRANSFERASE. THE ROLE OF ALPHA-LACTALBUMIN. Bell JE, Beyer TA, Hill RL *J Biol Chem* 251: 3003-13, 25 May 76 (Eng) *DL/77FEB571

LACTATE

[MUSCLE METABOLISM OF GLUCOSE, LACTATE, FREE FATTY ACIDS, AND GLYCEROL AT REST AND DURING ELECTRICALLY STIMULATED EXERCISE IN THE PERFUSED RAT HIND LIMB (AUTHORS TRANSL)] Dieterle C, Gartner R, Dieterle P *Res Exp Med (Berl)* 168: 23-33, 22 Jul 76 (Ger) DL/77FEB378

LACTIC ACIDOSIS

CAN PHENFORMIN-INDUCED LACTIC ACIDOSIS BE PREVENTED? Gale EA, Tattersall RB *Br Med J* 2: 972-5, 23 Oct 76 (Eng) DL/77FEB32

[LACTIC ACIDOSIS IN DIABETES MELLITUS (AUTHORS TRANSL)] Buess HJ, Mihatsch MJ, Wunderlich P, Berger W *Praxis* 65: 406-13, 6 Apr 76 (Ger) DL/77FEB353

LASER

CONCAVALIN A STIMULATION MODIFIES THE LIPID AND PROTEIN STRUCTURE OR RABBIT THYMOCYTE PLASMA MEMBRANES. A LASER RAMAN STUDY. Schmidt-Ullrich R, Verma SP, Wallach DF *Biochim Biophys Acta* 426: 477-88, 19 Mar 76 (Eng) *DL/77FEB519

LAZAROW, ARNOLD

ARNOLD LAZAROW: 1916-1975. Cooperstein SJ *Anat Rec* 186: 247-9, Oct 76 (Eng) DL/77FEB486

LEARNING

[CORRELATIONS BETWEEN HIPPOCAMPUS FUNCTION AND STRESSED LEARNING AND THEIR EFFECT ON CEREBRO-VISCERAL REGULATION PROCESSES] Hecht K, Hai NV, Hecht T, Moritz V, Woosmann H *Acta Biol Med Ger* 35: 35-45, 1976 (Ger) DL/77FEB449

LECITHIN

INFLUENCE OF FAT INGESTION ON LECITHIN:CHOLESTEROL ACYL TRANSFER RATE IN PLASMA OF NORMAL PERSONS. Wallentin L, Vikrot O *Scand J Clin Lab Invest* 36: 473-9, Sep 76 (Eng) DL/77FEB392

LENS

INHIBITION OF LENS ALDOSE REDUCTASE BY FLAVONOIDS-THEIR POSSIBLE ROLE IN THE PREVENTION OF DIABETIC CATARACTS. Varma SD, Kinoshita JH *Biochem Pharmacol* 25: 2505-13, 15 NOV 76 (Eng) DL/77FEB514

NEUTRAL PROTEINASE ACTIVITY IN THE HUMAN LENS. Trayhurn P, van Heyningen R *Exp Eye Res* 22: 251-7, Mar 76 (Eng) *DL/77FEB553

Diabetes Literature—Keyword Index

LENS FIBER

HIGH MOLECULAR WEIGHT PROTEIN FROM HUMAN LENSES. Roy D, Spector A *Exp Eye Res* 22: 273-9, Mar 76 (Eng) *DL/77FEB554

LENS FIBER

DIFFERENTIAL SYNTHESIS OF CRYSTALLIN AND NONCRYSTALLIN POLYPEPTIDES DURING LENS FIBER CELL DIFFERENTIATION IN VITRO. Beebe DC, Piatigorsky *Exp Eye Res* 22: 237-49, Mar 76 (Eng) *DL/77FEB552

LENS TISSUE

GAS CHROMATOGRAPHIC STUDY OF FREE POLYOLS AND ALDOSES IN CATARACTOUS HUMAN LENS TISSUE. Pfaffenberger CD, Szafranek J, Horning EC *J Chromatogr* 126: 535-45, 3 Nov 76 (Eng) DL/77FEB164

LESION, ATROPHIC

ATROPHIC LESIONS OF THE TONGUE: A PREVALENCE STUDY AMONG 175 DIABETIC PATIENTS. Farman AG *J Oral Pathol* 5: 255-64, Sep 76 (Eng) DL/77FEB206

LESION, GLOMERULAR

ISLET TRANSPLANTATION IN EXPERIMENTAL DIABETES OF THE RAT. V. REGRESSION OF GLOMERULAR LESIONS IN DIABETIC RATS AFTER INTRAPORTAL TRANSPLANTATION OF ISOGENEIC ISLETS. PRELIMINARY RESULTS. Federlin K, Bretzel RG, Schmidtchen U *Horm Metab Res* 8: 404-6, Sep 76 (Eng) DL/77FEB148

LESION, TONGUE

ORAL CANDIDA, DEBILITATING DISEASE AND ATROPHIC LESIONS OF THE TONGUE. Farman AG, Nutt G *J Biol Buccale* 4: 203-26, SEP 76 (Eng) DL/77FEB158

LESION, VASCULAR

[PLACE AND RESPONSIBILITY OF VASCULAR LESIONS IN DIABETIC NEUROPATHIES] Pirart J *Rev Prat* 26: 3149-56, 11 Oct 76 (Fre) [61] DL/77FEB386

LEUCINE

[LEUCINE-SENSITIVE HYPOGLYCAEMIA AND ITS TREATMENT WITH DIAZOXIDE (AUTHORS TRANSL)] Reich H, Schunke W *Monatsschr Kinderheilkd* 129: 673-6, Sep 76 (Ger) DL/77FEB321

TEMPERATURE-DEPENDENT ETHANOL INHIBITION OF [14C]LEUCINE INCORPORATION IN MOUSE HEART SLICES. Gailis L *Recent Adv Stud Cardiac Struct Metab* 7: 443-9, 1975 (Eng) *DL/77FEB674

L-LEUCINE

ULTRASTRUCTURE OF B-CELLS OF LANGERHANS ISLETS IN RATS AFTER THE ADMINISTRATION OF L-LEUCINE. Galabova R, Petkov P *Endocrinol Exp (Bristol)* 10: 217-23, 1976 (Eng) DL/77FEB67

INSULIN RELEASE AND PHOSPHATE ION EFFLUX FROM RAT PANCREATIC ISLETS INDUCED BY L-LEUCINE AND ITS NON-METABOLIZABLE ANALOGUE, 2-AMINO-BICYCLO[2.2.1]HEPTANE-2-CARBOXYLIC ACID. Freinkel N, Younsi CE, Dawson RMC *Proc Natl Acad Sci USA* 73: 3403-7, Oct 76 (Eng) DL/77FEB358

LEUKEMIA, LYMPHOCYTIC

EFFECTS OF MITOGENS ON GLUCOSE OXIDATION BY LYMPHOCYTES FROM NORMAL INDIVIDUALS AND PATIENTS WITH CHRONIC LYMPHOCYTIC LEUKEMIA. Tsan MF, Chen WY, Newman B, Wagner HN Jr, McIntyre PA *Johns Hopkins Med J* 138: 113-8, Apr 76 (Eng) *DL/77FEB603

LEUKOCYTE

A STUDY OF INSULIN RECEPTORS IN HUMAN MONONUCLEAR LEUCOCYTES. Pedersen O, Beck-Nielsen H *Acta Endocrinol (Kbh)* 83: 556-64, Nov 76 (Eng) DL/77FEB455

LIMB

[MUSCLE METABOLISM OF GLUCOSE, LACTATE, FREE FATTY ACIDS, AND GLYCEROL AT REST AND DURING ELECTRICALLY STIMULATED EXERCISE IN THE PERFUSED RAT HIND LIMB (AUTHORS TRANSL)] Dieterle C, Gartner R, Dieterle P *Res Exp Med (Berl)* 168: 23-33, 22 Jul 76 (Ger) DL/77FEB378

LIMB, LOWER

[TREATMENT OF MOIST GANGRENE OF THE LOWER LIMBS IN PATIENTS WITH DIABETES MELLITUS] Struchkov VI, Grigorian AV, Oganessian SS *Khirurgiya (Mosk)* 63-8, Sep 76 (Rus) DL/77FEB225

LINOLEIC ACID

THE ROLE OF LINOLEIC ACID IN HYPOXIA-INDUCED CHANGES OF THE ACTION POTENTIALS AND THE FORCE OF CONTRACTION OF ISOLATED PAPILLARY MUSCLES OF THE GUINEA PIG. Ravens KG, Ravens U *Recent Adv Stud Cardiac Struct Metab* 7: 289-95, 1975 (Eng) *DL/77FEB671

LIPASE

COMPARATIVE STUDIES OF LIPASE AND PHOSPHOLIPASE A2 ACTING ON SUBSTRATE MONOLAYERS. Verger R, Rietsch J, Van Dam-Mieras MC, de Haas GH *J Biol Chem* 251: 3128-33, 25 May 76 (Eng) *DL/77FEB574

LIPASE, LIPOPROTEIN

INTRA- AND EXTRACELLULAR FORMS OF LIPOPROTEIN LIPASE IN ADIPOSE TISSUE. Nilsson-Ehle P, Garfinkel AS, Schotz MC *Biochim Biophys Acta* 431: 147-56, 22 Apr 76 (Eng) *DL/77FEB522

[SUBCELLULAR LOCALIZATION OF RAT ADIPOCYTE LIPOPROTEIN LIPASE] Wolf C, Vanhove A, Breton M, Etienne J, Bereziat G, Polonovski J *C R Soc Biol (Paris)* 169: 1145-9, 1975 (Fre) *DL/77FEB528

EFFECT OF ETHANOL ON THE ACTIVITY OF LIPOPROTEIN LIPASE IN ADIPOSE TISSUE OF MALE AND FEMALE RATS. Johnson O, Hernell O *Nutr Metab* 19: 41-4, 1975 (Eng) *DL/77FEB616

LIPID

CONCAVALIN A STIMULATION MODIFIES THE LIPID AND PROTEIN STRUCTURE OR RABBIT THYMOCYTE PLASMA MEMBRANES. A LASER RAMAN STUDY. Schmidt-Ullrich R, Verma SP, Wallach DF *Biochim Biophys Acta* 426: 477-88, 19 Mar 76 (Eng) *DL/77FEB519

[LETTER: EFFECT OF TEMPERATURE ON THE STRUCTURAL STATE OF LIPIDS IN

MITOCHONDRIAL MEMBRANES] Puchkov EO, Putvinskii AV, Roshchupkin DI, Vladimirov luA *Biofizika* 21: 387-8, Mar-Apr 76 (Rus) *DL/77FEB525

CHARACTERIZATION OF LIPIDS ASSOCIATED WITH MACROMOLECULES OF THE INTERCELLULAR MATRIX OF HUMAN AORTA. Claire M, Jacotot B, Robert I. *Connect Tissue Res* 4: 61-71, 1976 (Eng) *DL/77FEB544

[EFFECT OF GAMMA RAYS FROM ⁶⁰CO ON THE IN VITRO INCORPORATION OF PALMITIC ACID IN LIPIDS OF RAT LIVER MICROSOMES] Magdalou J, Doussset N, Douste-Blazy L *Int J Radiat Biol* 29: 27-35, Jan 76 (Fre) *DL/77FEB565

MYOCARDIAL ION AND LIPID CHANGES DURING ISCHEMIA AND CATECHOLAMINE INDUCED NECROSIS: RELATION TO REGIONAL BLOOD FLOW. Regan TJ, Markov A, Khan MI, Jesrani MU, Oldewurtel HA, Ettinger PO *Recent Adv Stud Cardiac Struct Metab* 1: 656-64, 1972 (Eng) *DL/77FEB649

UTILIZATION OF ENDOGENOUS LIPIDS AND GLYCOCEN IN THE PERFUSED RAT HEART: EFFECTS OF HYPOXIA AND EPINEPHRINE. Crass MF 3d, Shipp JC, Pieper GM *Recent Adv Stud Cardiac Struct Metab* 7: 219-24, 1975 (Eng) *DL/77FEB661

LIPID BILAYER

[RECONSTRUCTION OF A SINGLE CELLULAR POTASSIUM-SODIUM CHANNEL IN A LIPID BILAYER] Aleksandrov AA, Berestovskii GN, Volkova SP, Vostrikov Ila, Zherelova OM *Dokl Akad Nauk SSSR* 227: 723-6, 21 Mar 76 (Rus) *DL/77FEB545

LIPID, BIOMEMBRANE

[SPECTROSCOPIC STUDIES ON THE SELF-ASSOCIATION MECHANISM OF BIOMEMBRANE LIPID COMPONENTS AND THEIR INTERACTION WITH WATER AND ALCOHOLS IN A NON-POLAR MEDIUM] Koval VH *Ukr Biokhim Zh* 47: 505-9, Jul-Aug 75 (Ukr) *DL/77FEB681

LIPID, BLOOD

[BLOOD LIPIDS, DIABETES AND ARTERIOSCLEROSIS] Guy-Grand B, Bigorie B, Bour H *Rev Prat* 26: 3097-107, 11 Oct 76 (Fre) DL/77FEB382

[BEHAVIOR OF KETONE BODIES, BLOOD LIPIDS AND OF VARIOUS LABORATORY-CHEMISTRY PARAMETERS DURING ISOCALORIC HIGH-CARBOHYDRATE AND HIGH-FAT REDUCING DIETS] Schubert WR, Vogel B, Schmulling RM, Eggstein M *Verh Dtsch Ges Inn Med* 81: 1397-1400, 1975 (Ger) *DL/77FEB684

LIPID FRACTION

[FATTY ACID PATTERN OF LIPID FRACTIONS IN THE BLOOD. II. CONTROL PERSONS] Lohninger A, Weigl K, Riedl W, Heinkelmann W, Tolle W, Schlag G, Landauer B, Blumel G *Med Welt* 27: 923-6, 7 May 76 (Ger) *DL/77FEB609

LIPID MEMBRANE

THE MOVEMENT OF ION PAIRS ACROSS BILAYER LIPID MEMBRANES. Mangel M, Jendrasiak GL *Chem Phys Lipids* 16: 167-80, Mar 76 (Eng) *DL/77FEB535

LIPID METABOLISM

[FASTING VALUES OF CARBOHYDRATE-AND LIPID METABOLISM IN HEALTHY

SUBJECTS AND IN PATIENTS WITH DIABETES MELLITUS Berg G, Matzakis F, Sailer D *Fortsschr Med* 94: 1541-3, 7 Oct 76 (Ger) DL/77FEB135

[COMPARATIVE STUDIES ON THE ORAL GLUCOSE TOLERANCE USING 50 AND 100G OF GLUCOSE WITH SPECIAL REFERENCE TO VARIOUS LIPID-METABOLISM PARAMETERS] Meinel H, Wolff E Z *Aerztl Fortbild (Jena)* 70: 943-6, 1 Sep 76 (Ger) DL/77FEB437

INSULIN KINETIC, GLUCOSE TOLERANCE, AND LIPID METABOLISM IN GENETICALLY SPONTANEOUS-HYPERTENSIVE RATS. Baumann R, Moritz V, Godicke W, Postnow JW, Ziegler M *Acta Biol Med Ger* 35: k 33-9, 1976 (Eng) DL/77FEB451

EFFECTS OF EXERCISE AND PHYSICAL TRAINING ON CARBOHYDRATE AND LIPID METABOLISM IN MAN. Bjontorp P *Adv Cardiol* 18: 158-66, 1976 (Eng) DL/77FEB462

MODIFICATION OF CELLULAR LIPID METABOLISM BY PSYCHOLOGICAL STRESS. Rose KD, Ursick J, Maca R *Recent Adv Stud Cardiac Struct Metab* 1: 729-41, 1972 (Eng) *DL/77FEB53

THE BABOON IN ATHEROSCLEROSIS RESEARCH: COMPARISON WITH OTHER SPECIES AND USE IN TESTING DRUGS AFFECTING LIPID METABOLISM. Howard AN *Adv Exp Med Biol* 67: 77-87, 1976 (Eng) *DL/77FEB698

LIPID METABOLISM AND ISCHAEMIC HEART DISEASE IN THE ELDERLY. Horsey J, Livesley B *Age Ageing* 5: 75-83, May 76 (Eng) *DL/77FEB699

LIPID, MICROSOMAL

EFFECT OF PANTOTHENIC ACID DEFICIENCY ON MICROBOSOMAL LIPIDS OF RAT LIVER. Mahboob S *Nutr Metab* 19: 91-5, 1975 (Eng) *DL/77FEB617

LIPID PEROXIDATION

[EFFECT OF ADRENALINE, NORADRENALINE, DOPAMINE, DOPA AND PHENYLALANINE ON LIPID PEROXIDATION IN LIVER MITOCHONDRIA MEMBRANES] Sergeev PV, Seifulla RD, Dunaev VG, Rudnev IuN *Biull Eksp Biol Med* 80: 25-8, Dec 75 (Rus) *DL/77FEB526

LIPID, SERUM

[DIABETES MELLITUS AS RISK FACTOR OF ISCHEMIC HEART DISEASE AND REFLECTED IN SERUM LIPID LEVELS.] Kusa O *Brazisl Lek Listy* 66: 28-37, 1 Jul 76 (Slo) DL/77FEB35

SERUM LIPID CHANGES DURING CONTRACEPTIVE ADMINISTRATION IN OBESE WOMEN: RELATION TO SERUM INSULIN LEVELS. Gershtberg H, Hulse M, Galler M *J Clin Endocrinol Metab* 43: 861-5, Oct 76 (Eng) DL/77FEB168

LIPID GENESIS

EFFECT OF HYPOPHYSECTOMY AND INSULIN ON LIPID GENESIS IN COCKERELS. Kompang IP, Gibson WR *Horm Metab Res* 8: 340-5, Sep 76 (Eng) DL/77FEB138

[EFFECT OF UNSATURATED DIETARY FATS ON GROWTH AND LIPID GENESIS IN RATS] Demarne Y, Toure M, Flanzy J, Lecourtier MJ *Nutr Metab* 19: 28-40, 1975 (Fre) *DL/77FEB615

LIPOLYSIS

THE CONTRIBUTION OF THE PANCREAS AND THE INTESTINE TO THE REGULATION OF LIPOLYSIS IN BIRDS. 2. IMPAIRED LIPOLYTIC ACTIVITY OF PANCREATIC GLUCAGON IN THE ABSENCE OF EITHER THE PANCREAS OR THE INTESTINE IN THE CHICKEN. Krug E, Gross R, Mialhe P *Horm Metab Res* 8: 345-50, Sep 76 (Eng) DL/77FEB139

REGULATION BY LIPOLYTIC AND ANTILIPOLYTIC COMPOUNDS OF THE PHOSPHORYLATION OF SPECIFIC PROTEINS IN ISOLATED INTACT FAT CELLS. Forn J, Greengard P *Arch Biochem Biophys* 176: 721-33, Oct 76 (Eng) DL/77FEB488

LIPOLYSIS AS A FUNCTION OF CELL NUMBERS AND FAT CONTENT: COMPARISON BETWEEN ISOLATED RAT AND DOG ADIPOCYTES. Hotta N, Sirek OV, Sirek A, Policova Z *Pahlavi Med J* 7: 167-79, Apr 76 (Eng) *DL/77FEB618

HUMAN ADIPOSE TISSUE IN CULTURE. VI. EFFECT OF AGE ON CELL SIZE AND LIPOLYSIS. Nyberg G, Mellgren G, Smith U *Acta Paediatr Scand* 65: 313-8, May 76 (Eng) *DL/77FEB687

LIPOLYTIC ACTIVITY

THE CONTRIBUTION OF THE PANCREAS AND THE INTESTINE TO THE REGULATION OF LIPOLYSIS IN BIRDS. 2. IMPAIRED LIPOLYTIC ACTIVITY OF PANCREATIC GLUCAGON IN THE ABSENCE OF EITHER THE PANCREAS OR THE INTESTINE IN THE CHICKEN. Krug E, Gross R, Mialhe P *Horm Metab Res* 8: 345-50, Sep 76 (Eng) DL/77FEB139

LIPOLYTIC ACTIVITY OF SWINE ADIPOCYTES. Mersmann HJ, Brown LJ, Beuving RD, Arkelian MC *Am J Physiol* 230: 1439-43, May 76 (Eng) *DL/77FEB700

LIPOPROTEIN

GLUCAGON AND LIPOPROTEINS. Eaton RP *Metabolism* 25: 1415-7, Nov 76 (Eng) [9] DL/77FEB286

CONTROL OF HEPATIC PROLIFERATION: A WORKING HYPOTHESIS INVOLVING HORMONES, LIPOPROTEINS, AND NOVEL NUCLEOTIDES. Koch KS, Leffert HL *Metabolism* 25: 1419-22, Nov 76 (Eng) DL/77FEB287

[THE BEHAVIOR OF LIPOPROTEINS, CHOLESTEROL, TRIGLYCERIDES, FREE FATTY ACIDS AND FREE GLYCEROL IN SERUM OF RATS WITH EXPERIMENTAL HYPERTHYROXINEMIA AND HYPOTHYREOSIS] Hubner G, Renner K, Rauer G *Endokrinologie* 67: 60-6, Mar 67 (Ger) *DL/77FEB548

LIPOPROTEIN, HIGH DENSITY

A MECHANISM BY WHICH HIGH-DENSITY LIPOPROTEINS MAY SLOW THE ATHEROGENIC PROCESS. Carew TE, Koschinsky T, Hayes SB, Steinberg D *Lancet* 1: 1315-7, 19 Jun 76 (Eng) *DL/77FEB607

LIPOPROTEIN LIPASE

INTRA- AND EXTRACELLULAR FORMS OF LIPOPROTEIN LIPASE IN ADIPOSE TISSUE. Nilsson-Ehle P, Garfinkel AS, Schotz MC *Biochim Biophys Acta* 431: 147-56, 22 Apr 76 (Eng) *DL/77FEB522

[SUBCELLULAR LOCALIZATION OF RAT ADIPOCYTE LIPOPROTEIN LIPASE] Wolf C,

Vanhove A, Breton M, Etienne J, Bereziat G, Polonovski J *C R Soc Biol (Paris)* 169: 1145-9, 1975 (Fre) *DL/77FEB528

EFFECT OF ETHANOL ON THE ACTIVITY OF LIPOPROTEIN LIPASE IN ADIPOSE TISSUE OF MALE AND FEMALE RATS. Johnson O, Hernell O *Nutr Metab* 19: 41-4, 1975 (Eng) *DL/77FEB616

LIPOPROTEIN, PLASMA

THE METABOLIC FATE OF PLASMA LIPOPROTEINS IN NORMAL SUBJECTS AND IN PATIENTS WITH INSULIN RESISTANCE AND ENDOGENOUS HYPERTRIGLYCERIDAEMIA. Kissebah AH, Alfarsi S, Adams PW, Wynn V *Diabetologia* 12: 501-9, Oct 76 (Eng) DL/77FEB119

LIPOTROPIC HORMONE

MULTIPOTENT LIPOTROPIC HORMONES. IN SEARCH OF A PITUITARY CELL PRODUCING MULTIPOTENT LPH. Furth J, Chretien M, Lis M, Belanger A, Moy P, Grauman J *Arch Pathol* 99: 572-81, Nov 75 (Eng) *DL/77FEB710

LITERATURE REVIEW

[ETRAN (ENFLURANE) ANESTHESIA (LITERATURE SURVEY)] Riabov GA, Semenov VN *Eksp Khir Anesteziol* 86-90, May-Jun 76 (Rus) DL/77FEB66

LITHIUM

LITHIUM EFFECTS ON CARBOHYDRATE AND ELECTROLYTE METABOLISM. PP. 319-22. Møllerup ET, Plenge P, Rafacsen OJ *Ino Ban TA, et al., ed. Psychopharmacology, sexual disorders and drug abuse. Amsterdam, North-Holland, 1973. QV 77 P973 1972. (Eng) *DL/77FEB584*

LIVER

THE LEVEL AND COMPOSITION OF SEROMUCOID AND NONDIALYSABLE SERUM SUGAR-PEPTIDE FRACTION COMPARED WITH THE ACTIVITY OF GALACTOSYL TRANSFERASE (EC 2.4.1.38) OF LIVER GOLGI MEMBRANES IN INSULIN-TREATED RATS. Guzdek A, Kordowiak A, Sarnicka-Keller M *Clin Chim Acta* 72: 393-9, 1 Nov 76 (Eng) DL/77FEB43

STUDIES ON GLYCOGENOLYSIS IN CARP LIVER: EVIDENCE FOR AN AMYLASE PATHWAY FOR GLYCOGEN BREAKDOWN. Murat JC *Comp Biochem Physiol [B]* 55: 461-5, 1976 (Eng) DL/77FEB58

ADRENAL AND LIVER PARTICIPATION IN THE RATS POST-STRESS DIABETIC RESPONSE. Vargas I, Kawada ME *Horm Metab Res* 8: 383-8, Sep 76 (Eng) DL/77FEB144

INSULIN AND GLUCAGON AS MODIFIERS OF DNA SYNTHESIS IN THE REGENERATING RAT LIVER. Price JB Jr *Metabolism* 25: 1427-8, Nov 76 (Eng) DL/77FEB289

[METABOLIC EFFECT OF ADMINISTRATION OF GLUCAGON AND A COMBINATION OF GLUCAGON AND FRUCTOSE TO PATIENTS WITH CIRRHOSIS OF THE LIVER AND TO HEALTHY SUBJECTS (AUTHORS TRANSL.)] Brodanova M, Brodan V, Andel M, Kuhn E *Sb Lek* 78: 218-24, Aug 76 (Cze) DL/77FEB390

[HORMONAL AND VITAMIN REGULATION OF GLUCOSE-6-PHOSPHATASE ACTIVITY IN THE LIVER] Vinogradov VV, Mandrik KA, Ostrovskii IuM *Ukr Biokhim Zh* 48: 421-5, Jul-Aug 76 (Rus) DL/77FEB417

ADRENALINE-INDUCED DESENSITIZATION OF LIVER ADENYLATE CYCLASE. Lam V,

Diabetes Literature—Keyword Index

LIVER CIRRHOSIS

Bar HP *Biochem Pharmacol* 25: 2103-4, 15 Sep 76 (Eng) DL/77FEB513

GENETICS OF MURINE LIVER AND KIDNEY ARYSULFATASE B. Daniel WL *Genetics* 82: 477-91, 25 Mar 76 (Eng) *DL/77FEB559

EFFECT OF PANTOTHENIC ACID DEFICIENCY ON MICROSMAL LIPIDS OF RAT LIVER. Mahboob S *Nutr Metab* 19: 91-5, 1975 (Eng) *DL/77FEB617

LIVER CIRRHOSIS

CLINICAL INVESTIGATION ON ABNORMAL GLUCOSE TOLERANCE IN LIVER CIRRHOSIS. Kato K, Kikuchi S, Ito M *Gastroenterol Jpn* 11: 31-7, 1976 (Eng) DL/77FEB129

LIVER, FATTY

[FATTY LIVER IN A HOSPITAL POPULATION, 1970-1974] Haagsma B, Marck K, van der Woude FJ *Ned Tijdschr Geneesk* 120: 1625-30, 25 Sep 76 (Dut) DL/77FEB328

LIVER GLYCOGEN

STUDIES ON THE ROLE OF CAMP-DEPENDENT PROTEIN KINASE IN THE ACTIONS OF GLUCAGON AND CATECHOLAMINES ON LIVER GLYCOGEN METABOLISM. Cherrington AD, Exton JH *Metabolism* 25: 1351-4, Nov 76 (Eng) DL/77FEB272

LIVER, ISOLATED PERFUSED

VITAMIN B2 METABOLISM IN THE ISOLATED PERFUSED RAT LIVER. Okuyama S, Ito S, Nishino Y *Gastroenterol Jpn* 11: 5-10, 1976 (Eng) DL/77FEB130

LIVER MICROSOME

SOME FACTORS AFFECTING CHAIN ELONGATION OF PALMITYL-CoA IN RAT LIVER MICROSOMES. Nakagawa M, Kawashima Y, Uchiyama M *Chem Pharm Bull (Tokyo)* 24: 46-51, Jan 76 (Eng) *DL/77FEB533

[EFFECT OF GAMMA RAYS FROM 60CO ON THE IN VITRO INCORPORATION OF PALMITIC ACID IN LIPIDS OF RAT LIVER MICROSOMES] Magdalou J, Doussset N, Douste-Blazy L *Int J Radiat Biol* 29: 27-35, Jan 76 (Fre) *DL/77FEB565

LIVER MITOCHONDRIA

[EFFECT OF ADRENALINE, NORADRENALINE, DOPAMINE, DOPA AND PHENYLALANINE ON LIPID PEROXIDATION IN LIVER MITOCHONDRIA MEMBRANES] Sergeev PV, Seifullina RD, Dunaev VG, Rudnev IuN *Biull Eksp Biol Med* 80: 25-8, Dec 75 (Rus) *DL/77FEB526

[EFFECT OF VARIOUS INHIBITORS ON OXIDATIVE ACTIVITY AND ULTRASTRUCTURE OF RAT LIVER MITOCHONDRIA] Latruffe N, Lenys D, Gaudemer Y, Bugnon C *C R Soc Biol (Paris)* 169: 1290-5, 1975 (Fre) *DL/77FEB529

LIVER REGENERATION

INSULIN, GLUCAGON, LIVER REGENERATION, AND DNA SYNTHESIS. Bucher NL, Weir GC *Metabolism* 25: 1423-5, Nov 76 (Eng) DL/77FEB288

L-DOPA

SEROTONINERGIC CONTROL OF HUMAN GROWTH HORMONE SECRETION: THE ACTIONS OF L-DOPA AND 2-BROMO-ALPHA-ERGOCRYPTINE. PP. 222-35. Smythe GA,

Compton PJ, Lazarus L, Ino Pecile A, Muller EE, ed. *Growth hormone and related peptides*. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB189

LOWER LIMB

[TREATMENT OF MOIST GANGRENE OF THE LOWER LIMBS IN PATIENTS WITH DIABETES MELLITUS] Struchkov VI, Grigorian AV, Oganessian SS *Khirurgii (Mosk)* 63-8, Sep 76 (Rus) DL/77FEB225

LSO

SEE LYSERGIC ACID DIETHYLAMIDE

LUMBAR SYMPATHECTOMY

CHEMICAL LUMBAR SYMPATHECTOMY. Hughes-Davies DI, Redman LR *Anaesthesia* 31: 1068-75, Oct 76 (Eng) DL/77FEB483

LUTEINIZING RELEASE HORMONE

LUTEINIZING RELEASE HORMONE TESTS IN IMPOTENT DIABETIC MALES. Wright AD, London DR, Holder G, Williams JW, Rudd BT *Diabetes* 25: 975-7, Oct 76 (Eng) DL/77FEB106

LYMPHOCYTE

EFFECTS OF MITOGENS ON GLUCOSE OXIDATION BY LYMPHOCYTES FROM NORMAL INDIVIDUALS AND PATIENTS WITH CHRONIC LYMPHOCYTIC LEUKEMIA. Tsan MF, Chen WY, Newman B, Wagner HN Jr, McIntyre PA *Johns Hopkins Med J* 138: 113-8, Apr 76 (Eng) *DL/77FEB603

LYMPHOCYTIC LEUKEMIA

EFFECTS OF MITOGENS ON GLUCOSE OXIDATION BY LYMPHOCYTES FROM NORMAL INDIVIDUALS AND PATIENTS WITH CHRONIC LYMPHOCYTIC LEUKEMIA. Tsan MF, Chen WY, Newman B, Wagner HN Jr, McIntyre PA *Johns Hopkins Med J* 138: 113-8, Apr 76 (Eng) *DL/77FEB603

LYSERGIC ACID DIETHYLAMIDE

PHARMACOLOGY OF LYSERGIC ACID DIETHYLAMIDE (LSD) IN MAN. PP. 173-83. Hollister LE *In: Radouco-Thomas S, ed. Pharmacologie, toxicologie, et abus des psychotomimetiques (hallucinogenes)*. Quebec, Les Presses de l'Université Laval, 1974. QV 109 L392p 1973. (Eng) [25] *DL/77FEB592

LYSOSOME

BEHAVIOR OF THE LYSOSOMAL SYSTEM DURING ORGAN PERFUSION. AN INQUIRY INTO THE MECHANISM OF HEPATIC PROTEOLYSIS. Mortimore GE, Ward WF *Front Biol* 45: 157-84, 1976 (Eng) [65] DL/77FEB80

MACRODONTIA

PREMATURE ERUPTION AND MACRODONTIA ASSOCIATED WITH INSULIN RESISTANT DIABETES AND PINEAL HYPERPLASIA. REPORT OF TWO CASES. Holmes J, Tanner MS *Br Dent J* 141: 280-4, 2 Nov 76 (Eng) DL/77FEB4

MACROMOLECULE

CHARACTERIZATION OF LIPIDS ASSOCIATED WITH MACROMOLECULES OF THE INTERCELLULAR MATRIX OF HUMAN AORTA. Claire M, Jacotot B, Robert L *Connect Tissue Res* 4: 61-71, 1976 (Eng) *DL/77FEB544

MACROPHAGE, ALVEOLAR

OXYGEN METABOLISM IN THE ALVEOLAR MACROPHAGE: FRIEND AND FOE. Bernard J, Gee JB, Khandwala AS *J Reticuloendothel Soc* 19: 229-36, Apr 76 (Eng) *DL/77FEB601

MAGNESIUM

EFFECTS OF DIABETES ON INTESTINAL MAGNESIUM ABSORPTION IN THE RAT. Miller DL, Schedl HP *Am J Physiol* 231: 1039-42, Oct 76 (Eng) DL/77FEB473

MYOCARDIAL LOSS OF FUNCTIONAL MAGNESIUM. I. EFFECT ON MITOCHONDRIAL INTEGRITY AND POTASSIUM RETENTION. Seelig MS *Recent Adv Stud Cardiac Struct Metab* 1: 615-25, 1972 (Eng) *DL/77FEB48

MALATE

[ANTAGONISM IN THE ACTION OF HYDROCORTISONE AND INSULIN IN VIVO ON ENZYMES OF PYRUVATE AND MALATE METABOLISM IN ADIPOSE TISSUE] Ilin VS, Vasileva LE, Tokhadze OG *Biokhimiia* 41: 1646-50, Sep 76 (Rus) DL/77FEB12

MALAYSIAN

SERUM INSULIN SECRETION BY ADULT MALAYSIANS. Jones JJ, Amlt PP, Owyong LY, Kuty MK *Med J Malaysia* 30: 285-6, Jun 76 (Eng) DL/77FEB318

MALEATE

[ROLE OF PERHEXILINE MALEATE AND BETA BLOCKING AGENTS IN THE DEVELOPMENT OF SEVERE HYPOGLYCEMIA (LETTER)] Sudre Y, Becq-Giraudon B, Pouget-Abadie JF, Demange J, Boudaud PH *Nouv Presse Med* 5: 1999, 25 Sep 76 (Fre) DL/77FEB341

MALEIC ACID

MECHANISM OF MALEIC ACID-INDUCED GLUCOSURIA IN DOG KIDNEY. Silverman M, Huang L *Am J Physiol* 231: 1024-32, Oct 76 (Eng) DL/77FEB472

MALIGNANT ATROPHIC PAPULOSIS

MALIGNANT ATROPHIC PAPULOSIS OF DEGS. REPORT OF A PATIENT WHO FAILED TO RESPOND TO FIBRINOLYTIC THERAPY. Howsden SM, Hodge SJ, Herndon JH, Freeman RG *Arch Dermatol* 112: 1582-8, Nov 76 (Eng) [61] DL/77FEB490

MALNUTRITION

MATERNAL PROTEIN MALNUTRITION DURING GESTATION ALONE AND ITS EFFECTS ON PLASMA INSULIN LEVELS OF THE PREGNANT PIG, ITS FETUSES AND THE DEVELOPING OFFSPRING. Atinmo T, Bal-dijao C, Pond WG, Barnes RH *J Nutr* 106: 1647-53, Nov 76 (Eng) DL/77FEB203

PROTEIN-ENERGY MALNUTRITION. DeMacyer EM *WHO Monogr Ser* 23-54, 1976 (Eng) [46] DL/77FEB430

MALTOSE

METABOLISM OF MALTOSE DURING SURGERY IN PATIENTS WITH DIABETES MELLITUS UNDER GENERAL ANESTHESIA. Yoshikawa K, Oda T *Res Exp Med (Berl)* 167: 127-38, 15 May 76 (Eng) DL/77FEB374

Diabetes Literature—Keyword Index

MAMMALIAN CELL

CARBOHYDRATE PREFERENCES OF MAMMALIAN CELLS. Burns RL, Rosenberger PG, Klebe RJ *J Cell Physiol* 88: 307-16, July 76 (Eng) *DL/77FEB576

MAMMARY ADENOCARCINOMA

IDENTIFICATION AND CHARACTERIZATION OF THE INSULIN RECEPTOR IN THE R3230AC MAMMARY ADENOCARCINOMA OF THE RAT. Harmon JT, Hilf R *Cancer Res* 36: 3993-4000, Nov 76 (Eng) DL/77FEB37

MAMMARY GLAND EXPLANT

EFFECTS OF HORMONES ON PROTEIN AND AMINO ACID METABOLISM IN MAMMARY GLAND EXPLANTS OF MICE. Anderson LD, Rillema JA *Biochem J* 158: 355-9, 15 Aug 76 (Eng) DL/77FEB506

MAMMOTROPHIC HORMONE

MAMMOTROPHIC HORMONES IN RUMINANTS. PP. 422-32. Forsyth IA, Hart IC In: Pecile A, Muller EE, ed. *Growth hormone and related peptides*. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) [91] DL/77FEB184

MANAGEMENT

HYPERALIMENTATION IN THE MANAGEMENT OF CHRONIC INFLAMMATORY INTESTINAL DISEASE. Dean RE, Campos MM, Barrett B *Dis Colon Rectum* 19: 601-4, Oct 76 (Eng) DL/77FEB62

KETONIC DIET IN THE MANAGEMENT OF PYRUVATE DEHYDROGENASE DEFICIENCY. Falk RE, Cederbaum SD, Blass JP, Gibson GE, Kark RA, Carrel RE *Pediatrics* 58: 713-21, Nov 76 (Eng) DL/77FEB338

PRINCIPLES OF MANAGEMENT OF MATURITY ONSET DIABETES. Taft P *Aust Fam Physician* 5: 656-8, Jun 76 (Eng) DL/77FEB495

MANAGEMENT OF DIABETES

THE MANAGEMENT OF DIABETES IN THE ELDERLY. Walsh CH *Compr Ther* 2: 38-46, Nov 76 (Eng) DL/77FEB51

MANGANESE

THE EFFECT OF GLUCOSE AND MANGANESE ON ADENOSINE-3,5-MONOPHOSPHATE LEVELS DURING GROWTH AND DIFFERENTIATION OF ASPERGILLUS NIDULANS. Zonneveld BJ *Arch Microbiol* 108: 41-4, 3 May 76 (Eng) *DL/77FEB708

MASS SPECTRUM

FIELD DESORPTION MASS SPECTRUM OF GLUCAGON. Winkler HU, Beubler RJ, Friedman I *Biomed Mass Spectrom* 3: 201-6, Oct 76 (Eng) DL/77FEB15

MATERNAL

THE EFFECT OF ORAL RITODRINE ON MATERNAL AND FETAL CARBOHYDRATE METABOLISM. Blouin D, Murray MA, Beard RW *Br J Obstet Gynaecol* 83: 711-5, Sep 76 (Eng) DL/77FEB8

MATERNAL PROTEIN MALNUTRITION DURING GESTATION ALONE AND ITS EFFECTS ON PLASMA INSULIN LEVELS OF THE PREGNANT PIG, ITS FETUSES AND THE DEVELOPING OFFSPRING. Atinmo T, Baldjao C, Pond WG, Barnes RH *J Nutr* 106: 1647-53, Nov 76 (Eng) DL/77FEB203

RELATIONSHIPS BETWEEN MATERNAL GLUCOSE INTOLERANCE AND NEONATAL BLOOD GLUCOSE. Haworth JC, Dilling LA *J Pediatr* 89: 810-3, Nov 76 (Eng) DL/77FEB207

MATERNAL DISEASE

[ALPHA FETO PROTEIN. NORMAL PREGNANCIES AND MATERNAL DISEASES. APROPOS OF 3,010 RADIOIMMUNOLOGIC DETERMINATIONS] Brettes JP, Tourne CE, Gandar R *J Gynecol Obstet Biol Reprod (Paris)* 5: 637-44, Jul-Aug 76 (Fre) DL/77FEB176

MATERNAL MORTALITY

MATERNAL MORTALITY IN DIABETES MELLITUS: AN 18-YEAR SURVEY. Gabbe SG, Mestman JH, Hibbard LT *Obstet Gynecol* 48: 549-51, Nov 76 (Eng) DL/77FEB331

MATHEMATICAL METHOD

[CORRECT CHOICE AND USE OF MATHEMATICAL METHODS IN THE SOLUTION OF MEDICAL PROBLEMS] Anonymous *Orv Hetil* 117: 2581-4, 17 Oct 76 (Hun) DL/77FEB334

MATURATION

INSECT FLIGHT MUSCLE: MATURATION AND SENESCENCE. Baker GT *3rd Gerontology* 22: 334-61, 1976 (Eng) *DL/77FEB561

MATURITY ONSET DIABETES

KINETICS OF INSULIN SECRETION IN CHRONIC PANCREATITIS AND MILD MATURITY ONSET DIABETES. (EVIDENCE FOR GUT HORMONE ACTION BEYOND GLUCORECEPTOR AND CYCLIC ADENOSINE MONOPHOSPHATE MEDIATED INSULIN RELEASE). Botha JL, Vinik AI, Blake KC, Jackson WP *Eur J Clin Invest* 6: 365-72, 10 Sep 76 (Eng) DL/77FEB72

[PROPORTION OF LOW INSULIN RESPONDERS TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL)] Vague P, Ramahandridona G, Vague J *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77FEB87

GASTRIC INHIBITORY POLYPEPTIDE (GIP) IN MATURITY-ONSET DIABETES MELLITUS. Crockett SE, Mazzaferri EL, Cataland S *Diabetes* 25: 931-5, Oct 76 (Eng) DL/77FEB99

VASCULITIS IN MATURITY-ONSET DIABETES MELLITUS [LETTER]. White DW *JAMA* 236: 2171, 8 Nov 76 (Eng) DL/77FEB217

PRINCIPLES OF MANAGEMENT OF MATURITY ONSET DIABETES. Taft P *Aust Fam Physician* 5: 656-8, Jun 76 (Eng) DL/77FEB495

MAZINDOL

THE EFFECTS OF MAZINDOL AND 46-034 (SANDOZ) ON GLUCOSE OXIDATION AND INSULIN BINDING BY RAT ISOLATED FAT CELLS. Harrison LC, King-Roach AP *Clin Exp Pharmacol Physiol* 3: 503-6, Sep-Oct 76 (Eng) DL/77FEB46

MEAL

GASTRIC EMPTYING OF SOLID MEALS IN DIABETICS. Scarpello JH, Barber DC, Hague RV, Cullen DR, Sladen GE *Br Med J* 2: 671-3, 18 Sep 76 (Eng) DL/77FEB22

EPIDEMIOLOGIC FINDINGS ON THE RELATIONSHIP OF TIME OF DAY AND TIME SINCE LAST MEAL TO GLUCOSE TOLERANCE. Mayer KH, Stamler J, Dyer A, Freinkel N, Stamler R, Berkson DM, Farber B *Diabetes* 25: 936-43, Oct 76 (Eng) DL/77FEB100

MEMBRANE, BILAYER LIPID

[BLOOD SUGAR AND BLOOD INSULIN AFTER A RAW OR COOKED MEAL IN CONTROL AND DIABETIC SUBJECTS] Havrankova J, Pesant P, Elie R, Matte R *Union Med Can* 105: 1147-51, Aug 76 (Fre) DL/77FEB421

MECONIUM ILEUS

MECONIUM ILEUS EQUIVALENT IN ADULTS WITH CYSTIC FIBROSIS OF PANCREAS: A REPORT OF SIX CASES. Hodson ME, Mearns MB, Batten JC *Br Med J* 2: 790-1, 2 Oct 76 (Eng) DL/77FEB27

MEDIASTINUM

[GIANT TUMOR OF THE MEDIASTINUM ASSOCIATED WITH HYPOGLYCEMIA: STUDY OF HYPOGLYCEMIA CAUSED BY EXTRA-PANCREATIC TUMOR] Ishikawa S, Suzuki R, Onishi T *J Jpn Assoc Thorac Surg* 24: 967-75, Jul 76 (Jpn) DL/77FEB194

MEDICATION

[HYPOGLYCEMIC MEDICATIONS AND VASCULAR COMPLICATIONS OF DIABETES MELLITUS. CURRENT CONTROVERSY] Lubetzki J *Rev Prat* 26: 3173-83, 11 Oct 76 (Fre) DL/77FEB388

MEDIUM, NON-POLAR

[SPECTROSCOPIC STUDIES ON THE SELF-ASSOCIATION MECHANISM OF BIOMEMBRANE LIPID COMPONENTS AND THEIR INTERACTION WITH WATER AND ALCOHOLS IN A NON-POLAR MEDIUM] Koval VH *Ukr Biokhim Zh* 47: 505-9, Jul-Aug 75 (Ukr) *DL/77FEB681

MELANOPHORE STIMULATING HORMONE

METABOLIC REQUIREMENTS FOR MELANOPHORE-STIMULATING HORMONE (MSH) SECRETION. Hadley ME, Bower SA *Gen Comp Endocrinol* 28: 118-30, Feb 76 (Eng) *DL/77FEB558

MEMBRANE

[EFFECT OF ADRENALINE, NORADRENALINE, DOPAMINE, DOPA AND PHENYLALANINE ON LIPID PEROXIDATION IN LIVER MITOCHONDRIA MEMBRANES] Sergeev PV, Seifulla RD, Dunaev VG, Rudnev Ia *N Biull Eksp Biol Med* 80: 25-8, Dec 75 (Rus) *DL/77FEB526

REGULATION OF SECRETION FROM THE ADRENAL MEDULLA. EVIDENCE FOR ADENYLATE CYCLASE ACTIVITY IN SECRETORY VESICLE MEMBRANES. Zinder O, Nikoijevic O, Hoffman PG, Pollard HB *J Biol Chem* 241: 2179-81, 10 Apr 76 (Eng) *DL/77FEB569

AN EXPERIMENT ELIMINATING THE ROTATING CARRIER MECHANISM FOR THE ACTIVE TRANSPORT OF CA ION IN SARCOPLASMIC RETICULUM MEMBRANES. Dutton A, Rees ED, Singer SJ *Proc Natl Acad Sci USA* 73: 1532-6, May 76 (Eng) *DL/77FEB624

MEMBRANE, BILAYER LIPID

THE MOVEMENT OF ION PAIRS ACROSS BILAYER LIPID MEMBRANES. Mangel M, Jendrasiak GL *Chem Phys Lipids* 16: 167-80, Mar 76 (Eng) *DL/77FEB535

MEMBRANE, BIOLOGICAL

MEMBRANE, BIOLOGICAL

SOME NEW ASPECTS ON THE INTERACTION OF HYPOGLYCEMIA-PRODUCING BIGUANIDES WITH BIOLOGICAL MEMBRANES. Schafer G *Biochem Pharmacol* 25: 2015-24, 15 Sep 76 (Eng) DL/77FEB512

[SOME ASPECTS OF BIOLOGICAL MEMBRANES: CONCEPTS AND TECHNIQUES (AUTHORS TRANSL.)] Stockinger L, Kerjaschki D *Wien Klin Wochenschr* 87: 709-16, 14 Nov 75 (Ger) [22] *DL/77FEB683

MEMBRANE, CELL

INTERACTION OF CELL-MEMBRANE PROLACTIN RECEPTOR WITH ITS ANTIBODY. Shiu RP, Friesen HG *Biochem J* 157: 619-26, 1 Sep 76 (Eng) DL/77FEB501

MEMBRANE, ERYTHROCYTE

HOLOCATALYTIC STATE OF ADENYLATE CYCLASE IN TURKEY ERYTHROCYTE MEMBRANES: FORMATION WITH GUANYLYLMIDODIPHOSPHATE PLUS ISOPROTERENOL WITHOUT EFFECT ON AFFINITY OF BETA-RECEPTOR. Spiegel AM, Brown EM, Fedak SA, Woodard CJ, Aurbach GD *J Cyclic Nucleotide Res* 2: 47-56, 1976 (Eng) *DL/77FEB583

MEMBRANE, FATTY ACID

PREPARATION AND PROPERTIES OF VESICLES ENCLOSED BY FATTY ACID MEMBRANES. Gebicki JM, Hicks M *Chem Phys Lipids* 16: 142-60, Mar 76 (Eng) *DL/77FEB534

MEMBRANE FLUIDITY

INSULIN DECREASES BACTERIAL MEMBRANE FLUIDITY. IS IT A GENERAL EVENT IN ITS ACTION? Moreno H, Farias RN *Biochem Biophys Res Commun* 72: 74-80, 7 Sep 76 (Eng) DL/77FEB508

MEMBRANE, GOLGI

THE LEVEL AND COMPOSITION OF SERUM-COID AND NONDIALLYZABLE SERUM SUGAR-PEPTIDE FRACTION COMPARED WITH THE ACTIVITY OF GALACTOSYL TRANSFERASE (EC 2.4.1.38) OF LIVER GOLGI MEMBRANES IN INSULIN-TREATED RATS. Guzdek A, Kordowiak A, Sarnecka-Keller M *Clin Chim Acta* 72: 393-9, 1 Nov 76 (Eng) DL/77FEB43

MEMBRANE, MITOCHONDRIAL

[LETTER: EFFECT OF TEMPERATURE ON THE STRUCTURAL STATE OF LIPIDS IN MITOCHONDRIAL MEMBRANES] Puchkov EO, Putvinskii AV, Roshchupkin DI, Vladimirov luA *Biofizika* 21: 387-8, Mar-Apr 76 (Rus) *DL/77FEB525

CONFORMATIONAL CHANGES IN CYTOCHROME AA3 AND ATP SYNTHETASE OF THE MITOCHONDRIAL MEMBRANE AND THEIR ROLE IN MITOCHONDRIAL ENERGY TRANSDUCTION. Wikstrom MK, Saari HT *Mol Cell Biochem* 11: 17-33, 26 Mar 76 (Eng) [70] *DL/77FEB612

FLUIDITY IN MITOCHONDRIAL MEMBRANES: THERMOTROPIC LATERAL TRANSLATIONAL MOTION OF INTRAMEMBRANE PARTICLES. Hochli M, Hackenbrock CR *Proc Natl Acad Sci USA* 73: 1636-40, May 76 (Eng) *DL/77FEB625

MEMBRANE PHOSPHOLIPID

EVIDENCE FOR A DIRECT EFFECT ON FATTY ACID SYNTHESIS IN RELA GENE CONTROL OF MEMBRANE PHOSPHOLIPID SYNTHESIS. Nunn WD, Cronan JE Jr *J Mol Biol* 102: 167-72, 25 Mar 76 (Eng) *DL/77FEB602

MEMBRANE, PLASMA

HORMONE REGULATED REDOX FUNCTION IN PLASMA MEMBRANES. Low H, Crane FL *FEBS Lett* 68: 157-9, 1 Oct 76 (Eng) DL/77FEB77

CONCAVALIN A STIMULATION MODIFIES THE LIPID AND PROTEIN STRUCTURE OR RABBIT THYMOCYTE PLASMA MEMBRANES. A LASER RAMAN STUDY. Schmidt-Ullrich R, Verma SP, Wallach DF *Biochim Biophys Acta* 426: 477-88, 19 Mar 76 (Eng) *DL/77FEB519

CHARACTERIZATION OF (3H)CYTOCHALASIN B BINDING TO THE FAT CELL PLASMA MEMBRANE. Czech MP *J Biol Chem* 251: 2905-10, 25 May 76 (Eng) *DL/77FEB570

INFLUENCE ON ADIPOCYTE PLASMA MEMBRANE BOUND PROTEIN KINASE BY FEEDBACK REGULATOR. Ho R, Russell T, Asakawa T, Snyder RP *J Cyclic Nucleotide Res* 1: 349-58, 1975 (Eng) *DL/77FEB580

A RAPID IMMUNOLOGICAL PROCEDURE FOR THE ISOLATION OF HORMONALLY SENSITIVE RAT FAT-CELL PLASMA MEMBRANE. Luzzio JP, Newby AC, Hales CN *Biochem J* 154: 11-21, 15 Jan 76 (Eng) *DL/77FEB714

MEMBRANE POTENTIAL

A MODEL FOR CONFORMATIONAL COUPLING OF MEMBRANE POTENTIAL AND PROTON TRANSLOCATION TO ATP SYNTHESIS AND TO ACTIVE TRANSPORT. Boyer PD *FEBS Lett* 58: 1-6, 15 Oct 75 (Eng) *DL/77FEB555

MEMBRANE, RED BLOOD CELL

INTERACTION BETWEEN PHLORETIN AND THE RED BLOOD CELL MEMBRANE. Jennings ML, Solomon AK *J Gen Physiol* 67: 381-97, Apr 76 (Eng) *DL/77FEB598

MEMBRANE-BOUND RENIN

STUDIES ON MEMBRANE-BOUND RENIN IN THE MOUSE AND RAT. Wilson CM, Ward PE, Erdos EG, Gecse A *Circ Res* 38: 95-8, Jun 76 (Eng) *DL/77FEB541

MERCURIC

PANCREATIC ISLET INJURY INDUCED BY METHYL MERCURIC CHLORIDE LIGHT AND ELECTRON MICROSCOPIC STUDIES. Shigenaga K *Kumamoto Med J* 29: 67-81, 30 Jun 76 (Eng) DL/77FEB232

MERCURIC CHLORIDE

PANCREATIC ISLET INJURY INDUCED BY METHYL MERCURIC CHLORIDE LIGHT AND ELECTRON MICROSCOPIC STUDIES. Shigenaga K *Kumamoto Med J* 29: 67-81, 30 Jun 76 (Eng) DL/77FEB232

MESSANGER RIBONUCLEIC ACID

PARTIAL PURIFICATION AND CHARACTERIZATION OF THE MRNA FOR RAT PREPROINSULIN. Duguid JR, Steiner DF, Chick WL *Proc Natl Acad Sci USA* 73: 3539-43, Oct 76 (Eng) DL/77FEB359

METABOLIC

[CLINICAL UNSPECIFICITY AND METABOLIC SPECIFICITY OF THE POLARIZING SOLUTION (AUTHORS TRANSL.)] Sodi-Pallares D *Folia Clin Int (Barc)* 26: 7-13, Jan 76 (Spa) [83] DL/77FEB81

THE METABOLIC FATE OF PLASMA LIPOPROTEINS IN NORMAL SUBJECTS AND IN PATIENTS WITH INSULIN RESISTANCE AND ENDOGENOUS HYPERTRIGLYCERIDAEMIA. Kissebah AH, Alfarsi S, Adams PW, Wynn V *Diabetologia* 12: 501-9, Oct 76 (Eng) DL/77FEB119

METABOLIC EFFECTS OF LONG-TERM SOMATOSTATIN INFUSION IN MAN. Gerich JE *Metabolism* 25: 1505-7, Nov 76 (Eng) DL/77FEB310

[METABOLIC EFFECT OF ADMINISTRATION OF GLUCAGON AND A COMBINATION OF GLUCAGON AND FRUCTOSE TO PATIENTS WITH CIRRHOSIS OF THE LIVER AND TO HEALTHY SUBJECTS (AUTHORS TRANSL.)] Brodanova M, Brodan V, Andel M, Kuhn E *Sb Lek* 78: 218-24, Aug 76 (Cze) DL/77FEB390

METABOLIC REQUIREMENTS FOR MELANOPHORE-STIMULATING HORMONE (MSH) SECRETION. Hadley ME, Bower SA *Gen Comp Endocrinol* 28: 118-30, Feb 76 (Eng) *DL/77FEB558

METABOLIC PROPERTIES OF A PURIFIED PREPARATION OF LARGE FRAGMENTS OF THE CEREBELLAR GLOMERULI: GLUCOSE METABOLISM AND AMINO ACID UPTAKE. Wilson JE, Wilkin GP, Balazs R *J Neurochem* 26: 957-65, May 76 (Eng) *DL/77FEB600

METABOLIC CHANGES IN INFARCTED AND NON-INFARCTED MYOCARDIUM DURING THE POSTINFARCTION PERIOD. Gudbjarnason S, Ravens KG, Mathes P *Recent Adv Stud Cardiac Struct Metab* 1: 439-46, 1972 (Eng) *DL/77FEB644

EFFECT ON MYOCARDIAL METABOLIC PATTERN OF LOCAL COMPLETE AND INCOMPLETE ISCHEMIA. Isselhard W, Geppert E, Menge M, Lauterjung KL, Vogel W, Witte J, Heugel E *Recent Adv Stud Cardiac Struct Metab* 7: 231-6, 1975 (Eng) *DL/77FEB664

METABOLIC ADAPTATION

PARTICIPATION OF CATECHOLAMINES AND CORTICAL HORMONES IN THE MYOCARDIAL METABOLIC ADAPTATION TO MECHANICAL OVERLOAD OF THE HEART. Fizez A, Fizezova A *Recent Adv Stud Cardiac Struct Metab* 1: 814-27, 1972 (Eng) *DL/77FEB655

METABOLIC, MYOCARDIAL

MYOCARDIAL METABOLIC CHANGES IN CARDIAC HYPERTROPHY AND HEART FAILURE. Fizezova A, Fizez A *Recent Adv Stud Cardiac Struct Metab* 1: 200-12, 1972 (Eng) *DL/77FEB639

METABOLIC RESPONSE

EFFECT OF CHRONIC ADMINISTRATION OF NICOTINE ON METABOLIC RESPONSES AND INTESTINAL GLUCOSE TRANSPORT. PP. 127-36. Bhagat B, van Beaumont W, Ellett MS *Ind Singh JM, Lal H, ed. Drug addiction. Vol 40 New aspects of analytical and clinical toxicology. New York, Stratton, 1974. W3 [N917KC 1973d. (Eng) [15] *DL/77FEB593*

METABOLISM

[ANTAGONISM IN THE ACTION OF HYDROCORTISONE AND INSULIN IN VIVO

Diabetes Literature—Keyword Index

METABOLISM, LIPID

ON ENZYMES OF PYRUVATE AND MALATE METABOLISM IN ADIPOSE TISSUE] Ilin VS, Vasileva LE, Tokhadze OG *Biokhimiia* 41: 1646-50, Sep 76 (Rus) DL/77FEB12

CLINICAL AND METABOLIC STUDIES IN CHILDREN OF DIABETIC-MOTHERS. Amendt P, Michaelis D, Hildmann W *Endokrinologie* 67: 351-61, 1976 (Eng) DL/77FEB70

METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E *Diabete Metab* 1: 77-85, Jun 75 (Eng) DL/77FEB95

EFFECT OF SOMATOSTATIN ON METABOLIC AND HORMONAL CHANGES INDUCED BY NICOTINIC ACID IN INSULIN-DEPENDENT DIABETICS. Luyckx AS, Lefebvre PJ *Diabetologia* 12: 447-53, Oct 76 (Eng) DL/77FEB13

VITAMIN B2 METABOLISM IN THE ISOLATED PERFUSED RAT LIVER. Okuyama S, Ito S, Nishino Y *Gastroenterol Jpn* 11: 5-10, 1976 (Eng) DL/77FEB130

ESTIMATES OF THE KINETIC PARAMETERS OF GROWTH HORMONE METABOLISM IN FED AND FASTED CALVES AND SHEEP. Trengle A *J Anim Sci* 43: 1035-43, Nov 76 (Eng) DL/77FEB153

WEIGHT LOSS IN PATIENTS TREATED LONG-TERM WITH LEVODOPA. METABOLIC ASPECTS. Vardi J, Oberman Z, Rabey I, Streifler M, Ayalon D, Herzberg M *J Neurol Sci* 30: 33-40, Nov 76 (Eng) DL/77FEB201

STUDIES ON THE ROLE OF CAMP-DEPENDENT PROTEIN KINASE IN THE ACTIONS OF GLUCAGON AND CATECHOLAMINES ON LIVER GLYCOGEN METABOLISM. Cherrington AD, Exton JH *Metabolism* 25: 1351-4, Nov 76 (Eng) DL/77FEB272

DIABETIC POLYNEUROPATHY: THE IMPORTANCE OF INSULIN DEFICIENCY, HYPERGLYCEMIA AND ALTERATIONS IN MYOINOSITOL METABOLISM IN ITS PATHOGENESIS. Winegrad AI, Greene DA *N Engl J Med* 295: 1416-21, 16 Dec 76 (Eng) DL/77FEB326

[THE ENDOCRINE CELLS OF THE GASTROINTESTINAL EPITHELIUM AND THE METABOLISM OF BIOGENIC AMINES IN THE GASTROINTESTINAL TRACT (AUTHORS TRANSL.)] Grube D *Prog Histochem Cytochem* 8: 1-128, 1976 (Ger) [1968] DL/77FEB369

METABOLISM OF MALTOSE DURING SURGERY IN PATIENTS WITH DIABETES MELLITUS UNDER GENERAL ANESTHESIA. Yoshikawa K, Oda T *Res Exp Med (Berl)* 167: 127-38, 15 May 76 (Eng) DL/77FEB374

HORMONAL RESPONSES AND THEIR EFFECT ON METABOLISM. Wilmore DW *Surg Clin North Am* 56: 999-1018, Oct 76 (Eng) DL/77FEB407

EFFECTS OF TRIETHYLENETETRAMINE UPON THE METABOLISM AND TOXICITY OF 63NICKEL IN RATS. Sunderman FW Jr, Kasprzak K, Horak E, Giltitz P, Onkelinx C *Toxicol Appl Pharmacol* 38: 177-88, Oct 76 (Eng) DL/77FEB414

INOSINE-STIMULATED INSULIN RELEASE AND METABOLISM OF INOSINE IN ISOLATED MOUSE PANCREATIC ISLETS. Capito K, Hedeskov CJ *Biochem J* 158: 335-40, 15 Aug 76 (Eng) DL/77FEB505

METABOLISM OF ERUCIC ACID IN THE ISOLATED PERFUSED RAT HEART. Vasdev SC, Kako KJ *Biochim Biophys Acta* 431: 22-32, 22 Apr 76 (Eng) *DL/77FEB523

INHIBITORY ACTION OF D-GALACTOSE ON PHAGOCYTE METABOLISM AND FUNCTION. Litchfield WJ, Wells WW *Infect Immun* 13: 728-34, Mar 76 (Eng) *DL/77FEB564

338

METABOLISM OF EXOGENOUS AND ENDOGENOUS FATTY ACIDS IN HEART MUSCLE. Crass MF 3d, Shipp JC *Recent Adv Stud Cardiac Struct Metab* 1: 115-26, 1972 (Eng) *DL/77FEB634

TRANSMURAL GRADIENTS IN THE ISCHEMIC DOG LEFT VENTRICLE: METABOLISM OF ENDOGENOUS TRIGLYCERIDES AND GLYCOGEN. Crass MF 3d, Holsinger JW Jr, Shipp JC, Eliot RS, Pieper GM *Recent Adv Stud Cardiac Struct Metab* 7: 225-30, 1975 (Eng) *DL/77FEB662

ERUCIC ACID METABOLISM BY CULTURED BEATING HEART CELLS OF THE POST-NATAL RAT. Pinson A, Padiou P *Recent Adv Stud Cardiac Struct Metab* 7: 29-40, 1975 (Eng) *DL/77FEB672

METABOLISM, AMINO ACID

EFFECTS OF HORMONES ON PROTEIN AND AMINO ACID METABOLISM IN MAMMARY-GLAND EXPLANTS OF MICE. Anderson LD, Rillema JA *Biochem J* 158: 355-9, 15 Aug 76 (Eng) DL/77FEB506

METABOLISM ATHEROGENESIS

ABNORMALITIES OF THE ARTERIAL WALL AND ITS METABOLISM IN ATHEROGENESIS. Wissler RW, Vesselinovitch D, Getz GS *Prog Cardiovasc Dis* 18: 341-69, Mar-Apr 76 (Eng) *DL/77FEB631

METABOLISM, CARBOHYDRATE

THE EFFECT OF ORAL RITODRINE ON MATERNAL AND FETAL CARBOHYDRATE METABOLISM. Blouin D, Murray MA, Beard RW *Br J Obstet Gynaecol* 83: 711-5, Sep 76 (Eng) DL/77FEB88

DISORDERS OF CARBOHYDRATE METABOLISM IN INFANCY. Cornblath M, Schwartz R *Major Probl Clin Pediatr* 3: 1-483, 1976 (Eng) DL/77FEB235

[CARBOHYDRATE METABOLISM AND ENDOCRINE CARCINOMA] Orlandi C *Minerva Ginecol* 28: 219-26, Mar 76 (Ita) DL/77FEB330

CHANGES IN CARBOHYDRATE METABOLISM AND ENDOCRINE FUNCTION OF REMNANT PANCREAS AFTER MAJOR PANCREATIC RESECTION. Yasugi H, Mizumoto R, Sakurai H, Honjo I *Am J Surg* 132: 577-80, Nov 76 (Eng) DL/77FEB477

METABOLISM, CARDIAC

EFFECT OF AGE ON CARDIAC METABOLISM. Sobel H *Recent Adv Stud Cardiac Struct Metab* 1: 101-11, 1972 (Eng) *DL/77FEB633

INFLUENCE OF ASSISTED CIRCULATION ON CARDIAC METABOLISM. Ziegelhoffer A, Siska K, Holec V, Fedelesova M, Frolo I *Recent Adv Stud Cardiac Struct Metab* 1: 484-91, 1972 (Eng) *DL/77FEB646

METABOLISM, CATECHOLAMINE

CATECHOLAMINE METABOLISM IN THIAMINE-DEFICIENT RATS. Iwata H *J Nutr Sci Vitaminol (Tokyo)* 22 SUPPL: 25-7, Aug 76 (Eng) DL/77FEB205

METABOLISM, DRUG

ALTERATION OF DRUG METABOLISM IN GILBERTS SYNDROME. Carulli N, Ponz de Leon M, Mauro E, Manenti F, Ferrari A *Gut* 17: 581-7, Aug 76 (Eng) DL/77FEB132

METABOLISM, ELECTROLYTE

LITHIUM EFFECTS ON CARBOHYDRATE AND ELECTROLYTE METABOLISM. PP. 319-22. Mellerup ET, Plenge P, Rafacsen OJ *Int Ban TA, et al., ed. Psychopharmacology, sexual disorders and drug abuse. Amsterdam, North-Holland, 1973. QV 77 P973 1972. (Eng) *DL/77FEB584*

METABOLISM, ENERGY

ENERGY METABOLISM AND PROTEOLYSIS IN TRAUMATIZED AND SEPTIC MAN. Clowes GH Jr, O'Donnell TF, Blackburn GL, Maki TN *Surg Clin North Am* 56: 1169-84, Oct 76 (Eng) [53] DL/77FEB406

[TRANSPORT OF FREE FATTY ACIDS AND ENERGY METABOLISM DURING HYPO- AND HYPERCALORIC FORMULA DIETS] Schonborn J, Dadrich E, Rabast U, Kasper H *Verh Dtsch Ges Inn Med* 81: 1402-5, 1975 (Ger) *DL/77FEB685

METABOLISM, FATTY ACID

MODULATION OF FATTY ACID METABOLISM BY GLUCAGON IN MAN. IV. EFFECTS OF A PHYSIOLOGIC HORMONE INFUSION IN NORMAL MAN. Schade DS, Eaton RP *Diabetes* 25: 978-83, Oct 76 (Eng) DL/77FEB107

METABOLISM, GLUCOSE

INFLUENCE OF DIETARY ENERGY DURING GESTATION ON LAMBING PERFORMANCE, AND GLUCOSE METABOLISM IN FINN-CROSS EWES. Prior RL, Christenson RK *J Anim Sci* 43: 1114-24, Nov 76 (Eng) DL/77FEB155

GLUCOSE METABOLISM IN PERFUSED SKELETAL MUSCLE. EFFECTS OF STARVATION, DIABETES, FATTY ACIDS, ACETOACETATE, INSULIN AND EXERCISE ON GLUCOSE UPTAKE AND DISPOSITION. Berger M, Hagg SA, Goodman MN, Ruderman NB *Biochem J* 158: 191-202, 15 Aug 76 (Eng) DL/77FEB504

METABOLIC PROPERTIES OF A PURIFIED PREPARATION OF LARGE FRAGMENTS OF THE CEREBELLAR GLOMERULI: GLUCOSE METABOLISM AND AMINO ACID UPTAKE. Wilson JE, Wilkin GP, Balazs R *J Neurochem* 26: 957-65, May 76 (Eng) *DL/77FEB600

METABOLISM, GLYCEROL

THE EFFECT OF GLUCOSE, INSULIN AND ADRENALINE ON GLYCEROL METABOLISM IN VITRO IN RAT ADIPOSE TISSUE. Dominguez MC, Herrera E *Biochem J* 158: 183-90, 15 Aug 76 (Eng) DL/77FEB503

METABOLISM, GLYCOGEN

REGULATION OF GLYCOGEN METABOLISM IN ASTROCYTOMA AND NEUROBLASTOMA CELLS IN CULTURE. Passonneau JV, Crites SK *J Biol Chem* 241: 2015-22, 10 Apr 76 (Eng) *DL/77FEB568

METABOLISM, LIPID

[FASTING VALUES OF CARBOHYDRATE- AND LIPID METABOLISM IN HEALTHY SUBJECTS AND IN PATIENTS WITH DIABETES MELLITUS] Berg G, Matzakis F, Sailer D *Fortschr Med* 94: 1541-3, 7 Oct 76 (Ger) DL/77FEB135

[COMPARATIVE STUDIES ON THE ORAL GLUCOSE TOLERANCE USING 50 AND 100G OF GLUCOSE WITH SPECIAL REFERENCE TO VARIOUS LIPID-METABOLISM

Diabetes Literature—Keyword Index

METABOLISM, MITOCHONDRIAL

PARAMETERS] Meinel H, Wolff E Z *Aerzt Fortbild (Jena)* 70: 943-6, 1 Sep 76 (Ger) DL/77FEB437

INSULIN KINETIC, GLUCOSE TOLERANCE, AND LIPID METABOLISM IN GENETICALLY SPONTANEOUS-HYPERTENSIVE RATS. Baumann R, Moritz V, Godicke W, Postnow JW, Ziegler M *Acta Biol Med Ger* 35: k 33-9, 1976 (Eng) DL/77FEB451

EFFECTS OF EXERCISE AND PHYSICAL TRAINING ON CARBOHYDRATE AND LIPID METABOLISM IN MAN. Bjontorp P *Adv Cardiol* 18: 158-66, 1976 (Eng) DL/77FEB462

MODIFICATION OF CELLULAR LIPID METABOLISM BY PSYCHOLOGICAL STRESS. Rose KD, Ursick J, Maca R *Recent Adv Stud Cardiac Struct Metab* 1: 729-41, 1972 (Eng) *DL/77FEB653

THE BABOON IN ATHEROSCLEROSIS RESEARCH: COMPARISON WITH OTHER SPECIES AND USE IN TESTING DRUGS AFFECTING LIPID METABOLISM. Howard AN *Adv Exp Med Biol* 67: 77-87, 1976 (Eng) *DL/77FEB698

LIPID METABOLISM AND ISCHAEMIC HEART DISEASE IN THE ELDERLY. Horsey J, Livesley B *Age Ageing* 5: 75-83, May 76 (Eng) *DL/77FEB699

METABOLISM, MITOCHONDRIAL

MITOCHONDRIAL METABOLISM AND CELL REGULATION. PP. 79-107. Williamson JR *In* O Packer L, Gomez-Puyou A, ed. *Mitochondria*. New York, Academic Press, 1976. QH 603.M5 M684 1975. (Eng) *DL/77FEB517

METABOLISM, MUSCLE

[MUSCLE METABOLISM OF GLUCOSE, LACTATE, FREE FATTY ACIDS, AND GLYCEROL AT REST AND DURING ELECTRICALLY STIMULATED EXERCISE IN THE PERFUSED RAT HIND LIMB (AUTHORS TRANSL.)] Dieterle C, Gartner R, Dieterle P *Res Exp Med (Berl)* 168: 23-33, 22 Jul 76 (Ger) DL/77FEB378

METABOLISM, MYOCARDIAL

EFFECT OF PALMITATE ON HYPOXIC MYOCARDIAL METABOLISM AND CONTRACTILITY. Apstein CS, Gmeiner R, Brachfeld N *Recent Adv Stud Cardiac Struct Metab* 1: 136-46, 1972 (Eng) *DL/77FEB635

MYOCARDIAL METABOLISM IN EXPERIMENTAL CARDIOGENIC SHOCK. Cronin RF, Zsoter T, Hollenberg CH *Recent Adv Stud Cardiac Struct Metab* 1: 95-100, 1972 (Eng) *DL/77FEB656

METABOLISM, NERVE

THE ROLE OF ABNORMALITIES IN NERVE METABOLISM IN THE PATHOGENESIS OF DIABETIC PERIPHERAL NEUROPATHY. Clements RS *Ala J Med Sci* 13: 399-404, Oct 76 (Eng) DL/77FEB478

METABOLISM NOREPINEPHRINE

METABOLISM OF NOREPINEPHRINE IN NONINFARCTED HEART MUSCLE AFTER EXPERIMENTAL MYOCARDIAL INFARCTION. Mathes P, Sack DW, Gudbjarnason S *Recent Adv Stud Cardiac Struct Metab* 7: 283-7, 1975 (Eng) *DL/77FEB670

METABOLISM, OXYGEN

OXYGEN METABOLISM IN THE ALVEOLAR MACROPHAGE: FRIEND AND FOE Bernard J,

Gee JB, Khandwala AS *J Reticuloendothel Soc* 19: 229-36, Apr 76 (Eng) *DL/77FEB601

METABOLISM, PHAGOCYTOSIS

[EFFECTS OF HISTONES ON PHAGOCYTOSIS AND PHAGOCYTIC METABOLISM] Agbaba O *Rev Can Biol* 35: 25-31, Mar 76 (Fre) *DL/77FEB632

METABOLISM, PHOSPHOLIPID

EFFECTS OF DENSITY-DEPENDENT INHIBITION OF GROWTH ON PHOSPHOLIPID METABOLISM IN MONOLAYER CULTURES OF ANIMAL CELLS. Gallaher WR, Blough HA *Arch Biochem Biophys* 173: 738-46, Apr 76 (Eng) *DL/77FEB704

METABOLISM, PURINE

[SELECTED PHISOPATHOLOGICAL AND CLINICAL ASPECTS OF PURINE METABOLISM] Chodorowski Z *Pol Tyg Lek* 31: 1733-5, 4 Oct 76 (Pol) [30] DL/77FEB349

METABOLISM, TRIGLYCERIDE

TRIGLYCERIDE METABOLISM IN EPIDIDYMAL ADIPOSE TISSUE OF OBESE ANIMALS. Okuda H *Pharmacol Biochem Behav* 3: 145-7, 1975 (Eng) *DL/77FEB626

METABOLITE, GLYCOLYTIC

THE EFFECT OF HYPERTHERMIA UPON OXYGEN CONSUMPTION AND UPON ORGANIC PHOSPHATES, GLYCOLYTIC METABOLITES, CITRIC AND CYCLE INTERMEDIATES AND ASSOCIATED AMINO ACIDS IN RAT CEREBRAL CORTICES. Carlsson C, Hagerdal M, Siesjö BK *J Neurochem* 26: 1001-6, May 76 (Eng) *DL/77FEB599

METACHROMASIA

HISTOLOGIC CHARACTERISTICS OF INSULINOMAS AND GASTRINOMAS. VALUE OF ARGYROPHILIA, METACHROMASIA, IMMUNOHISTOLOGY, AND ELECTRON MICROSCOPY FOR THE IDENTIFICATION OF GASTROINTESTINAL AND PANCREATIC ENDOCRINE CELLS AND THEIR TUMORS. Woodtli W, Hedinger C *Virchows Arch [Pathol Anat]* 371: 331-50, 7 Oct 76 (Eng) DL/77FEB425

METFORMIN

INFLUENCE OF METFORMIN ON ARGININE-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ *Diabete Metab* 1: 23-8, Mar 75 (Eng) DL/77FEB84

METHOD

HUMAN C-PEPTIDE IMMUNOREACTIVITY (CPR) IN BLOOD AND URINE - EVALUATION OF A RADIOIMMUNOASSAY METHOD AND ITS CLINICAL APPLICATIONS. Kuzuya T, Saito T, Yoshida S, Matsuda A *Diabetologia* 12: 511-8, Oct 76 (Eng) DL/77FEB120

MORPHOMETRIC METHOD TO ESTIMATE THE PARAMETERS OF DISTRIBUTION FUNCTIONS ASSUMED FOR SPHERICAL BODIES FROM MEASUREMENTS ON A RANDOM SECTION. Suwa N, Takahashi T, Saito K, Sawai T *Tohoku J Exp Med* 118: 101-11, Feb 76 (Eng) DL/77FEB413

HUMAN FAT CELL SIZING--A QUICK, SIMPLE METHOD. Ashwell M, Priest P, Bondoux M, Sowter C, McPherson CK *J Lipid Res* 17: 190-2, Mar 76 (Eng) *DL/77FEB594

A RAPID METHOD FOR THE DETERMINATION OF GLYCOGEN CONTENT AND RADIOACTIVITY IN SMALL QUANTITIES OF TISSUE OR ISOLATED HEPATOCYTES. Chan TM, Exton JH *Anal Biochem* 71: 96-105, Mar 76 (Eng) *DL/77FEB701

METHYL MERCURIC CHLORIDE

PANCREATIC ISLET INJURY INDUCED BY METHYL MERCURIC CHLORIDE LIGHT AND ELECTRON MICROSCOPIC STUDIES. Shigenaga K *Kumamoto Med J* 29: 67-81, 30 Jun 76 (Eng) DL/77FEB232

METHYLGUANIDINE

METHYLGUANIDINE AND INSULIN RESPONSE IN PATIENTS ON MAINTENANCE HAEMODIALYSIS [LETTER]. Ferrannini E, Navalesi R, Pilo A, Morelli E *Lancet* 2: 1028-9, 6 Nov 76 (Eng) DL/77FEB252

METHYLMALONIC ACIDURIA

METHYLMALONIC ACIDURIA AND HYPOGLYCEMIA [LETTER]. Garnica A, Desrosiers P, Sargent T *N Engl J Med* 295: 1138-7, 11 Nov 76 (Eng) DL/77FEB323

MICHIGAN

COMPARISON OF HOSPITAL ADMISSIONS FOR CEREBROVASCULAR DISEASE IN MICHIGAN AND NORTH CAROLINA. Wylie CM, Carpenter JO *J Community Health* 2: 21-30, Fall 76 (Eng) DL/77FEB170

MICROANATOMY

THE MICROANATOMY OF THE ISLETS OF LANGERHANS. Orci L *Metabolism* 25: 1303-13, Nov 76 (Eng) [30] DL/77FEB262

MICROANGIOPATHY, DIABETIC

[PATHOGENESIS, PHYSIOPATHOLOGY, AND EPIDEMIOLOGY OF DIABETIC MICROANGIOPATHY] Hauteceuvre M, Basdevant A, Slama G, Tchobrousky G *Rev Prat* 26: 3085-93, 11 Oct 76 (Fre) DL/77FEB381

[ABNORMALITIES IN PRIMARY HEMOSTASIS DURING DIABETIC MICROANGIOPATHY] Bensoussan D, Levy-Toledano S, Passa P *Anal Rev* 5: 2383-6, 30 Oct 76 (Fre) DL/77FEB457

MICROFILAMENT

CELL SURFACE RECEPTORS FOR INSULIN AND HUMAN GROWTH HORMONE. EFFECT OF MICROTUBULE AND MICROFILAMENT MODIFIERS. Van Obberghen E, De Meyts P, Roth J *J Biol Chem* 251: 6844-51, 10 Nov 76 (Eng) DL/77FEB161

MICROMETHOD

[MICROMETHOD FOR THE DETERMINATION OF GLUCOSE WITH GLUCOSE DEHYDROGENASE IN THE AUTANALYZER (AUTHORS TRANSL.)] Scholte A, Pianezzi A *J Clin Chem Clin Biochem* 14: 189-93, Apr 76 (Ger) *DL/77FEB597

MICROSCOPY, ELECTRON

PANCREATIC ISLET INJURY INDUCED BY METHYL MERCURIC CHLORIDE LIGHT AND ELECTRON MICROSCOPIC STUDIES. Shigenaga K *Kumamoto Med J* 29: 67-81, 30 Jun 76 (Eng) DL/77FEB232

[GANGLIOCYTIC PARANGLIOMA OF THE DUODENUM. ONE CASE WITH ELECTRON MICROSCOPE STUDY (AUTHORS TRANSL.)

Diabetes Literature—Keyword Index

MODEL

MITOCHONDRIAL MEMBRANE

[LETTER: EFFECT OF TEMPERATURE ON THE STRUCTURAL STATE OF LIPIDS IN MITOCHONDRIAL MEMBRANES] Puchkov EO, Putvinskii AV, Roshchupkin DI, Vladimirov IA *Biofizika* 21: 387-8, Mar-Apr 76 (Rus) *DL/77FEB525

MITOCHONDRIAL MEMBRANE

CONFORMATIONAL CHANGES IN CYTOCHROME AA3 AND ATP SYNTHETASE OF THE MITOCHONDRIAL MEMBRANE AND THEIR ROLE IN MITOCHONDRIAL ENERGY TRANSDUCTION. Wikstrom MK, Saari HT *Mol Cell Biochem* 11: 17-33, 26 Mar 76 (Eng) [70] *DL/77FEB612

FLUIDITY IN MITOCHONDRIAL MEMBRANES: THERMOTROPIC LATERAL TRANSLATIONAL MOTION OF INTRAMEMBRANE PARTICLES. Hochli M, Hackenbrock CR *Proc Natl Acad Sci USA* 73: 1636-40, May 76 (Eng) *DL/77FEB625

MITOCHONDRIAL METABOLISM

MITOCHONDRIAL METABOLISM AND CELL REGULATION. PP. 79-107. Williamson JR In *Packer L, Gomez-Puyou A, eds. Mitochondria. New York, Academic Press, 1976. QH 603.M5 M684 1975.* (Eng) *DL/77FEB517

MITOCHONDRIAL PROTEIN SYNTHESIS

INFLUENCE OF THE HYPOPHYSIS ON MITOCHONDRIAL PROTEIN SYNTHESIS. de Favelukes SS, de Tarlovsky MS, Bedetti CD, Stoppani AO *Acta Physiol Lat Am* 25: 107-11, 1975 (Eng) *DL/77FEB688

MITOGEN

EFFECTS OF MITOGENS ON GLUCOSE OXIDATION BY LYMPHOCYTES FROM NORMAL INDIVIDUALS AND PATIENTS WITH CHRONIC LYMPHOCYTIC LEUKEMIA. Tsan MF, Chen WY, Newman B, Wagner HN Jr, McIntyre PA *Johns Hopkins Med J* 138: 113-8, Apr 76 (Eng) *DL/77FEB603

MITOGEN RECEPTOR

MITOGEN RECEPTORS IN CHICK EMBRYO FIBROBLASTS. KINETICS, SPECIFICITY, UNMASKING, AND SYNTHESIS OF 125I-INSULIN BINDING SITES. Raizada MK, Perdue JF *J Biol Chem* 251: 6445-55, 25 Oct 76 (Eng) DL/77FEB159

MODEL

EXPERIMENTAL EVALUATION OF THREE SINGLE-PARTICLE DISSOLUTION MODELS. Pedersen PV, Brown KF *J Pharm Sci* 65: 1442-7, OCT 76 (Eng) DL/77FEB208

A MODEL FOR CONFORMATIONAL COUPLING OF MEMBRANE POTENTIAL AND PROTON TRANSLLOCATION TO ATP SYNTHESIS AND TO ACTIVE TRANSPORT. Boyer PD *FEBS Lett* 58: 1-6, 15 Oct 75 (Eng) *DL/77FEB555

RABBITS AS A MODEL FOR THE STUDY OF HYPERLIPOPROTEINEMIA AND ATHEROSCLEROSIS. Shore B, Shore V *Adv Exp Med Biol* 67: 123-41, 1976 (Eng) *DL/77FEB693

A MODEL FOR THERAPEUTIC INTERVENTIONS ON ESTABLISHED CORONARY ATHEROSCLEROSIS IN A NONHUMAN PRIMATE. Malinow MR, McLaughlin O, Papworth L, Naito HK, Lewis L, McNulty WP *Adv Exp Med Biol* 67: 3-31, 1976 (Eng) *DL/77FEB694

MIGRAINE

INSULIN SECRETION IN MIGRAINE: INFLUENCE ON THE BLOOD LEVELS OF TRYPTOPHAN. Poloni M, Nappi G, Bono G, Roggi C, Arpesella M, Virgilio P *Monogr Neural Sci* 3: 67-70, 1976 (Eng) DL/77FEB322

MILK

THE KINETIC MECHANISM OF BOVINE MILK GALACTOSYLTRANSFERASE. THE ROLE OF ALPHA-LACTALBUMIN. Bell JE, Beyer TA, Hill RL *J Biol Chem* 251: 3003-13, 25 May 76 (Eng) *DL/77FEB571

MITOCHONDRIA

MOLECULAR AND PHYSIOLOGICAL ASPECTS OF ADENINE NUCLEOTIDE TRANSPORT IN MITOCHONDRIA. Vignais PV *Biochim Biophys Acta* 456: 1-38, 30 Apr 76 (Eng) [188] *DL/77FEB524

EXCHANGE OF PHOSPHOLIPIDS BETWEEN MITOCHONDRIA AND ROUGH OR SMOOTH MICROSOMES IN VITRO. Taniguchi M, Sakagami T *J Biochem (Tokyo)* 77: 1245-8, Jun 75 (Eng) *DL/77FEB567

RESPONSES OF THE HEART MITOCHONDRIA TO CHRONIC CARDIAC OVERLOAD AND PHYSICAL EXERCISE. Wollenberger A *Recent Adv Stud Cardiac Struct Metab* 1: 213-22, 1972 (Eng) *DL/77FEB640

INHIBITED ADENINE NUCLEOTIDE TRANSLLOCATION IN MITOCHONDRIA ISOLATED FROM ISCHEMIC MYOCARDIUM. Bittar N, Shug AL, Koke JR, Folts JD, Shrago ES *Recent Adv Stud Cardiac Struct Metab* 7: 137-43, 1975 (Eng) *DL/77FEB658

SOME ASPECTS OF FATTY ACID OXIDATION IN ISOLATED FAT-CELL MITOCHONDRIA FROM RAT. Harper RD, Saggerson ED *Biochem J* 152: 485-94, Dec 75 (Eng) *DL/77FEB711

MITOCHONDRIA, HEART

BETA-HYDROXY FATTY ACID PRODUCTION DURING FATTY ACID OXIDATION BY HEART MITOCHONDRIA. Hull FE, Radloff JF, Sweeley CC *Recent Adv Stud Cardiac Struct Metab* 7: 13-21, 1975 (Eng) *DL/77FEB657

MITOCHONDRIA, LIVER

[EFFECT OF ADRENALINE, NORADRENALINE, DOPAMINE, DOPA AND PHENYLALANINE ON LIPID PEROXIDATION IN LIVER MITOCHONDRIA MEMBRANES] Sergeev PV, Seifulla RD, Dunaev VG, Rudnev IuN *Biull Eksp Biol Med* 80: 25-8, Dec 75 (Rus) *DL/77FEB526

[EFFECT OF VARIOUS INHIBITORS ON OXIDATIVE ACTIVITY AND ULTRASTRUCTURE OF RAT LIVER MITOCHONDRIA] Latruffe N, Lenys D, Gaudemer Y, Bugnon C *C R Soc Biol (Paris)* 169: 1290-5, 1975 (Fre) *DL/77FEB529

MITOCHONDRIAL

MITOCHONDRIAL FUNCTIONAL CHANGES DURING HEPATIC HYPERPLASIA AND AZO DYE CARCINOGENESIS. Higgins ES, Rogers KS, Marks PA *Chem Biol Interact* 13: 295-305, Jun 76 (Eng) *DL/77FEB532

INFLUENCE OF ELECTROSTATIC SURFACE POTENTIAL ON MITOCHONDRIAL ADP-PHOSPHORYLATION. Schafer G, Rowohl-Quisthoudt G *FEBS Lett* 59: 48-51, 1 Nov 75 (Eng) *DL/77FEB556

Kermarec J, Duplay H, Lesbros F *Arch Anat Cytol Pathol* 24: 261-8, 1976 (Fre) DL/77FEB492

KINETICS OF PROTEIN SYNTHESIS AND RELEASE IN THE STH-CELL OF THE MOUSE ANTERIOR PITUITARY AS REVEALED BY ELECTRON MICROSCOPIC AUTORADIOGRAPHY OF 3H-AMINO ACIDS. Hiura M, Komatsu M, Fujita H *Arch Histol Jpn* 38: 347-57, Feb 76 (Eng) *DL/77FEB709

MICROSOMAL DIACYGLYCEROL ACYLTRANSFERASE

A HIGHLY SENSITIVE ASSAY FOR MICROSOMAL DIACYGLYCEROL ACYLTRANSFERASE ACTIVITY FROM ISOLATED FAT CELLS. Bell RM, Miller Y *Anal Biochem* 71: 436-43, Apr 76 (Eng) *DL/77FEB702

MICROSOMAL LIPID

EFFECT OF PANTOTHENIC ACID DEFICIENCY ON MICROSOMAL LIPIDS OF RAT LIVER. Mahboob S *Nutr Metab* 19: 91-5, 1975 (Eng) *DL/77FEB617

MICROSOME

[REGULATION OF MICROSOMAL ENZYME ACTIVITY BY PHOSPHOLIPIDS IN VIVO] Burlakova EB, Dzhalibova MI, Molochkina EM *Dokl Akad Nauk SSSR* 227: 991-4, 1976 (Rus) *DL/77FEB547

EXCHANGE OF PHOSPHOLIPIDS BETWEEN MITOCHONDRIA AND ROUGH OR SMOOTH MICROSOMES IN VITRO. Taniguchi M, Sakagami T *J Biochem (Tokyo)* 77: 1245-8, Jun 75 (Eng) *DL/77FEB567

MICROSOME, HEPATIC

EFFECT OF DIETARY SUBSTITUTION OF SUCROSE AND ITS CONSTITUENT MONOSACCHARIDES ON THE ACTIVITY OF AROMATIC HYDROXYLASE AND THE LEVEL OF CYTOCHROME P-450 IN HEPATIC MICROSOMES OF GROWING RATS. Basu TK, Dickerson JW, Parke DV *Nutr Metab* 18: 302-9, 1975 (Eng) *DL/77FEB614

MICROSOME, LIVER

SOME FACTORS AFFECTING CHAIN ELONGATION OF PALMITYL-COA IN RAT LIVER MICROSOMES. Nakagawa M, Kawashima Y, Uchiyama M *Chem Pharm Bull (Tokyo)* 24: 46-51, Jan 76 (Eng) *DL/77FEB533

[EFFECT OF GAMMA RAYS FROM 60CO ON THE IN VITRO INCORPORATION OF PALMITIC ACID IN LIPIDS OF RAT LIVER MICROSOMES] Magdalou J, Doussset N, Douste-Blazy L *Int J Radiat Biol* 29: 27-35, Jan 76 (Fre) *DL/77FEB565

MICROSURGERY

A MICROSURGICAL TECHNIQUE FOR ORTHOTOPIC OVARIAN TRANSPLANTATION IN THE CHINESE HAMSTER. Schmidt FL, Miller RL, Peterson T, Soret MG *Surgery* 80: 595-600, Nov 76 (Eng) DL/77FEB409

MICROTUBULE

CELL SURFACE RECEPTORS FOR INSULIN AND HUMAN GROWTH HORMONE. EFFECT OF MICROTUBULE AND MICROFILAMENT MODIFIERS. Van Obberghen E, De Meyts P, Roth J *J Biol Chem* 251: 6844-51, 10 Nov 76 (Eng) DL/77FEB161

Diabetes Literature—Keyword Index

MODEL, ANIMAL

THE NONHUMAN PRIMATES AS MODELS FOR STUDYING HUMAN ATHEROSCLEROSIS: STUDIES ON THE CHIMPANZEE, THE BABOON AND THE RHESUS MACACUS. Blaton V, Peeters H *Adv Exp Med Biol* 67: 33-64, 1976 (Eng) *DL/77FEB696

MODEL, ANIMAL

INBRED MICE AND THEIR HYBRIDS AS AN ANIMAL MODEL FOR ATHEROSCLEROSIS RESEARCH. Roberts A, Thompson JS *Adv Exp Med Biol* 67: 313-327, 1976 (Eng) *DL/77FEB695

MOLECULAR WEIGHT

DOMINANT INHERITANCE OF LARGE MOLECULAR WEIGHT SPECIES OF GLUCAGON. Ensink JW, Palmer JP *Metabolism* 25: 1409-11, Nov 76 (Eng) DL/77FEB285

HIGH MOLECULAR WEIGHT PROTEIN FROM HUMAN LENSES. Roy D, Spector A *Exp Eye Res* 22: 273-9, Mar 76 (Eng) *DL/77FEB554

MONCKEBERGS ARTERIOSCLEROSIS

MONCKEBERGS ARTERIOSCLEROSIS REVISITED: OR SILVER VESSELS AMONG THE OLD. Moskowitz M, Verani M *J Can Assoc Radiol* 27: 200-2, Sep 76 (Eng) DL/77FEB162

MONITORING

BLOOD GLUCOSE MONITORING IN SYMPTOMATIC HYPOGLYCEMIA. Cole RA, Benedict GW, Margolis S, Kowarski A *Diabetes* 25: 984-8, Oct 76 (Eng) DL/77FEB108

MONOCOMPONENT INSULIN

[EXPERIENCES WITH MONOCOMPONENT (MC) INSULIN IN THE TREATMENT OF JUVENILE DIABETES] Aronson S, Engleson G *Lakartidningen* 73: 3982-4, 10 Nov 76 (Swe) DL/77FEB243

MONOLAYER

COMPARATIVE STUDIES OF LIPASE AND PHOSPHOLIPASE A2 ACTING ON SUBSTRATE MONOLAYERS. Verger R, Rietsch J, Van Dam-Mieras MC, de Haas GH *J Biol Chem* 251: 3128-33, 25 May 76 (Eng) *DL/77FEB574

MONOLAYER CULTURE

EFFECTS OF DENSITY-DEPENDENT INHIBITION OF GROWTH ON PHOSPHOLIPID METABOLISM IN MONOLAYER CULTURES OF ANIMAL CELLS. Gallaher WR, Blough HA *Arch Biochem Biophys* 173: 738-46, Apr 76 (Eng) *DL/77FEB704

MONOSACCHARIDE

AUGMENTATION OF ETHANOL ABSORPTION BY MONO- AND DISACCHARIDES. Broitman SA, Gottlieb LS, Vitale JJ *Gastroenterology* 70: 1101-7, Jun 76 (Eng) *DL/77FEB557

EFFECT OF DIETARY SUBSTITUTION OF SUCROSE AND ITS CONSTITUENT MONOSACCHARIDES ON THE ACTIVITY OF AROMATIC HYDROXYLASE AND THE LEVEL OF CYTOCHROME P-450 IN HEPATIC MICROSOMES OF GROWING RATS. Basu TK, Dickerson JW, Parke DV *Nutr Metab* 18: 302-9, 1975 (Eng) *DL/77FEB614

MORBIDITY, PERINATAL

[OBSTETRICAL BRACHIAL PLEXUS INJURIES. A STUDY ON PERINATAL MORBIDITY] Vrouwenarts PE, Arts JP, Kinderneuroloog

PF *Ned Tijdschr Geneesk* 120: 1666-72, 2 Oct 76 (Dut) DL/77FEB329

MORGAGNI-MOREL-STEWART SYNDROME

[HORMONAL DISORDERS IN A PATIENT WITH MORGAGNI-MOREL-STEWART SYNDROME] Hrycek A, Kubek A, Grabski J, Kalina Z *Wiad Lek* 29: 1673-6, 15 Sep 76 (Pol) DL/77FEB432

MORPHOMETRICAL METHOD

MORPHOMETRICAL METHOD TO ESTIMATE THE PARAMETERS OF DISTRIBUTION FUNCTIONS ASSUMED FOR SPHERICAL BODIES FROM MEASUREMENTS ON A RANDOM SECTION. Suwa N, Takahashi T, Saito K, Sawai T *Tohoku J Exp Med* 118: 101-11, Feb 76 (Eng) DL/77FEB413

MORTALITY

CANCER MORTALITY AND SACCHARIN CONSUMPTION IN DIABETICS. Armstrong B, Lea AJ, Adelstein AM, Donovan JW, White GC, Ruttle S *Br J Prev Soc Med* 30: 151-7, Sep 76 (Eng) DL/77FEB19

[ANNUAL MORTALITY RHYTHM OF DIABETES MELLITUS (AUTHORS TRANSL.)] Valsik JA, Stukovsky R *Bratisl Lek Listy* 65: 494-501, May 76 (Slo) DL/77FEB34

MORTALITY, INFANT

[PREVENTIVE MEASURES AGAINST INFANT MORTALITY AND CEREBRAL DISEASES ASSOCIATED WITH PREMATURITY] Duc G *Gynaekol Rundsch* 15 suppl 1: 34-8, 1975 (Fre) *DL/77FEB562

MORTALITY, MATERNAL

MATERNAL MORTALITY IN DIABETES MELLITUS: AN 18-YEAR SURVEY. Gabbe SG, Mestman JH, Hibbard LT *Obstet Gynecol* 48: 549-51, Nov 76 (Eng) DL/77FEB331

MOTHER

[PROGNOSIS OF CHILDREN OF MOTHERS WITH DIABETES MELLITUS] Salvioli GP, Dallacasa P, Bottigioni F, Guerreschi E *Minerva Pediatr* 28: 212-6, 11 Feb 76 (Ita) DL/77FEB320

CEREBRAL LESIONS OF MATURE NEWBORN DUE TO PERINATAL HYPOXIA. II. MOTHERS DISEASES. Nyka WM *Z Geburtshilfe Perinatol* 180: 295-9, Aug 76 (Eng) DL/77FEB440

MOTHER, DIABETIC

CLINICAL AND METABOLIC STUDIES IN CHILDREN OF DIABETIC-MOTHERS. Amendt P, Michaelis D, Hildmann W *Endokrinologie* 67: 351-61, 1976 (Eng) DL/77FEB70

MOTILITY

THE EFFECT OF CHANGES IN BLOOD GLUCOSE ON THE MOTILITY OF THE DUODENUM IN SHEEP. Mostaghni K, Howard BR *Cornell Vet* 66: 598-603, Oct 76 (Eng) DL/77FEB59

MOUSE

EFFECTS OF HORMONES ON PROTEIN AND AMINO ACID METABOLISM IN MAMMARY-GLAND EXPLANTS OF MICE. Anderson LD,

Rillema JA *Biochem J* 158: 355-9, 15 Aug 76 (Eng) DL/77FEB506

MOUSE, SPINY

PROINSULIN SYNTHESIS IN ISLETS OF LANGERHANS FROM SPINY MICE (ACOMYS CAHIRINUS). COMPARISON WITH RATS AND MICE. Trueheart PA, Maldonado A, Kaelin D, Renold AE, Sharp GW *Diabetologia* 12: 463-70, Oct 76 (Eng) DL/77FEB115

MUCOSA, GASTRIC

RAT GASTRIC MUCOSAL OXYGEN TENSION, ULCER INDEX, PLASMA GASTRIN AND GLUCAGON FOLLOWING RESTRAINT STRESS. INFLUENCE OF VAGOTOMY, SPLANCHNICOTOMY AND EXOGENOUS SECRETIN. Schwill PO, Schellerer W, Steiner H, Reizenstein M *Res Exp Med (Berl)* 167: 149-58, 15 May 76 (Eng) DL/77FEB375

MULTIPLICATION STIMULATING ACTIVITY

STIMULATION OF DNA SYNTHESIS, CELL MULTIPLICATION, AND ORNITHINE DECARBOXYLASE IN 3T3 CELLS BY MULTIPLICATION STIMULATING ACTIVITY (MSA). Nissley SP, Passamani J, Short P *J Cell Physiol* 89: 393-402, NOV 76 (Eng) DL/77FEB163

MUSCLE

STUDIES ON INSULIN ACTION. V. STRUCTURAL REQUIREMENTS OF PRIMERS FOR SUBSEQUENT ACCUMULATION OF D-GLUCOSE AT 0 DEGREES C IN INSULINIZED FROG MUSCLES. Ling GN, Will S *Physiol Chem Phys* 8: 115-24, 1976 (Eng) DL/77FEB364

3-OXO ACID COENZYME A-TRANSFERASE IN NORMAL AND DIABETIC RAT MUSCLE. Fenselau A, Wallis K *Biochem J* 158: 509-12, 15 Aug 76 (Eng) DL/77FEB507

MUSCLE, CARDIAC

CONTROL OF PROTEIN BALANCE IN HYPERTROPHIC CARDIAC MUSCLE. Zak R, Martin AF, Reddy MK, Rabinowitz M *Circ Res* 38: 1145-50, May 76 (Eng) *DL/77FEB537

PARTIAL PURIFICATION OF THE NADPH-DEPENDENT ALDEHYDE REDUCTASE FROM BOVINE CARDIAC MUSCLE. Kawalek JC, Gilbertson JR *Arch Biochem Biophys* 173: 649-57, Apr 76 (Eng) *DL/77FEB703

MUSCLE, FLIGHT

INSECT FLIGHT MUSCLE: MATURATION AND SENESCENCE. Baker GT *3rd Gerontology* 22: 334-61, 1976 (Eng) *DL/77FEB561

MUSCLE, HEART

FACTORS CONTROLLING PROTEIN SYNTHESIS IN HEART MUSCLE. Hjalmarson AC, Isaksson O, Kallfelt BJ *Adv Cardiol* 18: 57-80, 1976 (Eng) DL/77FEB463

METABOLISM OF EXOGENOUS AND ENDOGENOUS FATTY ACIDS IN HEART MUSCLE. Crass MF 3d, Shipp JC *Recent Adv Stud Cardiac Struct Metab* 1: 115-26, 1972 (Eng) *DL/77FEB634

METABOLISM OF NOREPINEPHRINE IN NONINFARCTED HEART MUSCLE AFTER EXPERIMENTAL MYOCARDIAL INFARCTION. Mathes P, Sack DW, Gudbjarnason S *Recent Adv Stud Cardiac Struct Metab* 7: 283-7, 1975 (Eng) *DL/77FEB670

Diabetes Literature—Keyword Index

MUSCLE METABOLISM

[MUSCLE METABOLISM OF GLUCOSE, LACTATE, FREE FATTY ACIDS, AND GLYCEROL AT REST AND DURING ELECTRICALLY STIMULATED EXERCISE IN THE PERFUSED RAT HIND LIMB (AUTHORS TRANSL)] Dieterle C, Gartner R, Dieterle P *Res Exp Med (Berl)* 168: 23-33, 22 Jul 76 (Ger) DL/77FEB378

MUSCLE, PAPILLARY

INFLUENCE OF FREE FATTY ACIDS ON MYOCARDIAL MECHANICS AND OXYGEN CONSUMPTION IN RAT PAPILLARY MUSCLES AND PERFUSED HEARTS, UNDER OXYGENATED AND HYPOXIC CONDITIONS. Henderson AH, Sonnenblick EH *Recent Adv Stud Cardiac Struct Metab* 1: 147-62, 1972 (Eng) *DL/77FEB636

THE ROLE OF LINOLEIC ACID IN HYPOXIA-INDUCED CHANGES OF THE ACTION POTENTIALS AND THE FORCE OF CONTRACTION OF ISOLATED PAPILLARY MUSCLES OF THE GUINEA PIG. Ravens KG, Ravens U *Recent Adv Stud Cardiac Struct Metab* 7: 289-95, 1975 (Eng) *DL/77FEB671

MUSCLE, SKELETAL

STUDIES WITH FLUTIOREX, A NEW ANORECTIC DRUG, ON GLUCOSE UPTAKE INTO HUMAN ISOLATED SKELETAL MUSCLE. Kirby MJ, Carageorgiou-Marcomihalakis H, Turner P *Br J Clin Pharmacol* 2: 541-2, Dec 75 (Eng) DL/77FEB6

DECAY OF SUCCINATE DEHYDROGENASE ACTIVITY IN RAT SKELETAL MUSCLE FOLLOWING STREPTOZOTOCIN INJECTION. Armstrong RB, Ianuzzo CD *Horm Metab Res* 8: 392-4, Sep 76 (Eng) DL/77FEB146

GLUCOSE METABOLISM IN PERFUSED SKELETAL MUSCLE. EFFECTS OF STARVATION, DIABETES, FATTY ACIDS, ACETOACETATE, INSULIN AND EXERCISE ON GLUCOSE UPTAKE AND DISPOSITION. Berger M, Hagg SA, Goodman MN, Ruderman NB *Biochem J* 158: 191-202, 15 Aug 76 (Eng) DL/77FEB504

MUSCULAR

MUSCULAR AND SEROSAL EFFECTS OF INSULIN ON ION CONTENTS OF THE FROG URINARY BLADDER. Janacek K, Rybova R, Slavikova M *Physiol Bohemoslov* 25: 385-7, 1976 (Eng) DL/77FEB367

MUSCULAR WORK

[MUSCULAR WORK IN THE THERAPY OF DIABETES MELLITUS] Berger M *Fortschr Med* 94: 1553-7, 7 Oct 76 (Ger) DL/77FEB136

MUTANT

GENETIC ANALYSIS OF PETITE MUTANTS OF SACCHAROMYCES CEREVISIAE: TRANSMISSIONAL TYPES. Perlman PS *Genetics* 82: 645-63, Apr 76 (Eng) *DL/77FEB560

MYOCARDIAL

INFLUENCE OF FREE FATTY ACIDS ON MYOCARDIAL MECHANICS AND OXYGEN CONSUMPTION IN RAT PAPILLARY MUSCLES AND PERFUSED HEARTS, UNDER OXYGENATED AND HYPOXIC CONDITIONS. Henderson AH, Sonnenblick EH *Recent Adv Stud Cardiac Struct Metab* 1: 147-62, 1972 (Eng) *DL/77FEB636

MYOCARDIAL ION AND LIPID CHANGES DURING ISCHEMIA AND CATECHOLAMINE INDUCED NECROSIS: RELATION TO REGIONAL BLOOD FLOW. Regan TJ, Markov A, Khan MI, Jesrani MU, Oldewurtel HA, Ettinger PO *Recent Adv Stud Cardiac Struct Metab* 1: 656-64, 1972 (Eng) *DL/77FEB649

PARTICIPATION OF CATECHOLAMINES AND CORTICAL HORMONES IN THE MYOCARDIAL METABOLIC ADAPTATION TO MECHANICAL OVERLOAD OF THE HEART. Fizel A, Fizelova A *Recent Adv Stud Cardiac Struct Metab* 1: 814-27, 1972 (Eng) *DL/77FEB655

MYOCARDIAL HIGH ENERGY PHOSPHATES IN EXPERIMENTAL THYROTOXICOSIS IN GUINEA PIGS. Jahrmarker H, Rackwitz R, Otter HP *Recent Adv Stud Cardiac Struct Metab* 7: 199-207, 1975 (Eng) *DL/77FEB659

EFFECT ON MYOCARDIAL METABOLIC PATTERN OF LOCAL COMPLETE AND INCOMPLETE ISCHEMIA. Isselhard W, Geppert E, Menge M, Lauterjung KL, Vogel W, Witte J, Heugel E *Recent Adv Stud Cardiac Struct Metab* 7: 231-6, 1975 (Eng) *DL/77FEB664

MYOCARDIAL CELL

THE EFFECTS OF HORMONES AND PROSTAGLANDINS ON THE CALCIUM POOLS IN CULTURED MYOCARDIAL CELLS. Moura AM, Simpkins H *Mol Cell Endocrinol* 5: 349-57, OCT 76 (Eng) DL/77FEB98

MYOCARDIAL CELL DAMAGE DUE TO ETHANOL. Gvozdzjak A, Borovic F, Bada V, Kruty F, Niederland TR, Gvozdzjak J *Recent Adv Stud Cardiac Struct Metab* 7: 451-7, 1975 (Eng) *DL/77FEB675

MYOCARDIAL INFARCTION

MYOCARDIAL INFARCTION IN YOUNGER WOMEN. ASSOCIATED CLINICAL FEATURES AND RELATIONSHIP TO USE OF ORAL CONTRACEPTIVE DRUGS. Arthes FG, Masi AT *Chest* 70: 574-83, Nov 76 (Eng) DL/77FEB60

EFFECTS OF REGIONAL ISCHEMIA ON METABOLISM OF GLUCOSE AND FATTY ACIDS. RELATIVE RATES OF AEROBIC AND ANAEROBIC ENERGY PRODUCTION DURING MYOCARDIAL INFARCTION AND COMPARISON WITH EFFECTS OF ANOXIA. Opie LH *Circ Res* 38: i52-74, May 76 (Eng) *DL/77FEB539

CATECHOLAMINES AND MYOCARDIAL INFARCTION. Young RC, Thomas M, Evans ME, Opie LH *Recent Adv Stud Cardiac Struct Metab* 1: 163-8, 1972 (Eng) *DL/77FEB637

METABOLISM OF NOREPINEPHRINE IN NONINFARCTED HEART MUSCLE AFTER EXPERIMENTAL MYOCARDIAL INFARCTION. Mathes P, Sack DW, Gudbjarnason S *Recent Adv Stud Cardiac Struct Metab* 7: 283-7, 1975 (Eng) *DL/77FEB670

MYOCARDIAL ISCHEMIA

CONTROL OF ENERGY PRODUCTION IN MYOCARDIAL ISCHEMIA. Shrago E, Shug AL, Sul H, Bittar N, Folts JD *Circ Res* 38: i75-9, May 76 (Eng) *DL/77FEB540

CARNITINE PALMITYLTRANSFERASE ACTIVITY DURING MYOCARDIAL ISCHEMIA AND AT LOW IONIC STRENGTHS. McMillin Wood J *Recent Adv Stud Cardiac Struct Metab* 7: 335-9, 1975 (Eng) *DL/77FEB673

MYOCARDIAL LOSS

MYOCARDIAL LOSS OF FUNCTIONAL MAGNESIUM. I. EFFECT ON MITOCHONDRIAL

INTEGRITY AND POTASSIUM RETENTION. Seelig MS *Recent Adv Stud Cardiac Struct Metab* 1: 615-25, 1972 (Eng) *DL/77FEB648

MYOCARDIAL METABOLIC

MYOCARDIAL METABOLIC CHANGES IN CARDIAC HYPERTROPHY AND HEART FAILURE. Fizelova A, Fizel A *Recent Adv Stud Cardiac Struct Metab* 1: 200-12, 1972 (Eng) *DL/77FEB639

MYOCARDIAL METABOLISM

EFFECT OF PALMITATE ON HYPOXIC MYOCARDIAL METABOLISM AND CONTRACTILITY. Apstein CS, Gmeiner R, Brachfeld N *Recent Adv Stud Cardiac Struct Metab* 1: 136-46, 1972 (Eng) *DL/77FEB635

MYOCARDIAL METABOLISM IN EXPERIMENTAL CARDIOGENIC SHOCK. Cronin RF, Zsoter T, Hollenberg CH *Recent Adv Stud Cardiac Struct Metab* 1: 95-100, 1972 (Eng) *DL/77FEB656

MYOCARDIAL OXYGEN

PATHOGENIC SIGNIFICANCE OF DISPROPORTION BETWEEN MYOCARDIAL OXYGEN SUPPLY AND CONSUMPTION. Scheuer J *Recent Adv Stud Cardiac Struct Metab* 1: 721-8, 1972 (Eng) *DL/77FEB652

MYOCARDIAL POTASSIUM

MYOCARDIAL POTASSIUM LOSS DURING ISCHEMIA. Case RB *Recent Adv Stud Cardiac Struct Metab* 1: 665-72, 1972 (Eng) *DL/77FEB650

MYOCARDIAL RESISTANCE

STUDIES ON THE MECHANISM OF INCREASED MYOCARDIAL RESISTANCE. Rona G, Dusek J *Recent Adv Stud Cardiac Struct Metab* 1: 422-9, 1972 (Eng) *DL/77FEB643

MYOCARDIAL SUBSTRATE

MYOCARDIAL SUBSTRATE UPTAKE IN MEN DURING EXERCISE UNDER HYPOXIC CONDITIONS. Keul J, Doll E *Recent Adv Stud Cardiac Struct Metab* 7: 261-6, 1975 (Eng) *DL/77FEB667

MYOCARDIAL SUBSTRATE LEVELS IN VIVO DURING HYPOXIA OF VARIOUS DEGREES AND DURATION. Weissel M, Turnheim K *Recent Adv Stud Cardiac Struct Metab* 7: 275-82, 1975 (Eng) *DL/77FEB669

MYOCARDIUM

METABOLIC CHANGES IN INFARCTED AND NON-INFARCTED MYOCARDIUM DURING THE POSTINFARCTION PERIOD. Gudbjarnason S, Ravens KG, Mathes P *Recent Adv Stud Cardiac Struct Metab* 1: 439-46, 1972 (Eng) *DL/77FEB644

INHIBITED ADENINE NUCLEOTIDE TRANSLLOCATION IN MITOCHONDRIA ISOLATED FROM ISCHEMIC MYOCARDIUM. Bittar N, Shug AL, Koke JR, Folts JD, Shrago ES *Recent Adv Stud Cardiac Struct Metab* 7: 137-43, 1975 (Eng) *DL/77FEB658

IS SUBSTRATE SUPPLY OF THE MYOCARDIUM LIMITED BY CAPILLARY EXCHANGE. Kammermeier H, Kammermeier B *Recent Adv Stud Cardiac Struct Metab* 7: 61-7, 1975 (Eng) *DL/77FEB677

Diabetes Literature—Keyword Index

MYOCARDIUM, ISCHEMIC

MYOCARDIUM, ISCHEMIC

LACK OF A SIGNIFICANT PROTECTIVE EFFECT OF AUGMENTED CIRCULATING GLUCOSE ON THE ISCHEMIC MYOCARDIUM. BJ Spah JA, Ogletree ML, Lefer AM *Can J Physiol Pharmacol* 54: 423-9, Aug 76 (Eng) DL/77FEB36

CYCLIC AMP LEVELS IN THE ACUTELY ISCHEMIC MYOCARDIUM OF THE DOG AND GUINEA PIG. Wollenberger A, Krause G, Heier G *Recent Adv Stud Cardiac Struct Metab* 1: 27-9, 1972 (Eng) *DL/77FEB642

MYOINOSITOL

DIABETIC POLYNEUROPATHY: THE IMPORTANCE OF INSULIN DEFICIENCY, HYPERGLYCEMIA AND ALTERATIONS IN MYOINOSITOL METABOLISM IN ITS PATHOGENESIS. Winegrad AI, Greene DA *N Engl J Med* 295: 1416-21, 16 Dec 76 (Eng) DL/77FEB326

[BIOCHEMICAL AND CLINICAL ASPECTS OF MYOINOSITOL] Trznadel K, Lutz W *Pol Tyg Lek* 31: 1857-9, 25 OCT 76 (Pol) [27] DL/77FEB351

MYOMA

[THE GLYCOGEN CONTENT OF BLOOD AND UTERINE TISSUE IN WOMEN WITH MYOMA AND ENDOMETRIOSIS (AUTHORS TRANSL.)] Muck BR, Hommel G *Arch Gynaekol* 221: 129-37, 17 Sep 76 (Ger) DL/77FEB493

MYOPATHY

ADRENERGIC NEUROHUMORS IN THE HEART OF HAMSTERS WITH HEREDITARY MYOPATHY DURING CARDIAC HYPERTROPHY AND FAILURE. Angelakos ET, Carballo LC, Daniels JB, King MP, Bajusz E *Recent Adv Stud Cardiac Struct Metab* 1: 262-78, 1972 (Eng) *DL/77FEB641

MYOSIN SYNTHESIS

EARLY CHANGES IN ACUTE CARDIAC OVERLOAD: STUDIES ON ADENYL CYCLASE ACTIVITY, CYCLIC 35-AMP, AND MYOSIN SYNTHESIS. Schreiber SS, Klein I, Oratz M, Evans C, Gueyikian I, Rothschild MA *Recent Adv Stud Cardiac Struct Metab* 1: 44-58, 1972 (Eng) *DL/77FEB645

NASAL CONCHA

[GANGRENE OF THE NASAL CONCHAS AND NASAL SEPTUM, RETROBULBAR ABSCESS AND RHINOGENIC SEPSIS IN A PATIENT WITH DIABETES MELLITUS] Sagalchik IaS *Zh Vyssh Nerv Deiat* 26: 100-1, Jun-Aug 76 (Rus) DL/77FEB442

NASAL SEPTUM

[GANGRENE OF THE NASAL CONCHAS AND NASAL SEPTUM, RETROBULBAR ABSCESS AND RHINOGENIC SEPSIS IN A PATIENT WITH DIABETES MELLITUS] Sagalchik IaS *Zh Vyssh Nerv Deiat* 26: 100-1, Jun-Aug 76 (Rus) DL/77FEB442

NATAL

RESEARCH ACHIEVEMENTS OF THE UNIVERSITY OF NATAL MEDICAL SCHOOL, 1951-1976. Adams EB *S Afr Med J* 50: 1577-85, 25 Sep 76 (Eng) DL/77FEB405

NATURAL HISTORY

NATURAL HISTORY OF CORONARY HEART DISEASE. Gorlin R *Major Probl Intern Med* 11: 195-215, 1976 (Eng) DL/77FEB236

NECROSIS

MYOCARDIAL ION AND LIPID CHANGES DURING ISCHEMIA AND CATECHOLAMINE INDUCED NECROSIS: RELATION TO REGIONAL BLOOD FLOW. Regan TJ, Markov A, Khan MI, Jesrani MU, Oldewurtel HA, Ettinger PO *Recent Adv Stud Cardiac Struct Metab* 1: 656-64, 1972 (Eng) *DL/77FEB649

NECROSIS, BONE

WIDESPREAD JUXTA-ARTICULAR BONE NECROSIS IN A TUNNELER. Sewell JR, Jary C *Proc R Soc Med* 69: 706-7, Sep 76 (Eng) DL/77FEB361

NECROTISING

TOTAL PANCREATCTOMY IN THE TREATMENT OF ACUTE NECROTISING AND HEMORRHAGIC PANCREATITIS. INDICATIONS-TECHNIQUE. Alexandre JH, Chambon H, Assan R *Langenbecks Arch Chir* 340: 231-47, 23 Apr 76 (Eng) DL/77FEB255

NEONATAL

RELATIONSHIPS BETWEEN MATERNAL GLUCOSE INTOLERANCE AND NEONATAL BLOOD GLUCOSE. Haworth JC, Dilling LA *J Pediatr* 89: 810-3, Nov 76 (Eng) DL/77FEB207

NEONATAL HYPOGLYCEMIA

[NEONATAL HYPOGLYCEMIA FOLLOWING BETA BLOCKER TREATMENT IN PREGNANCY] Forthoft B, Jacobsen JR *Ugeskr Laeger* 138: 2958-9, 15 Nov 76 (Dan) DL/77FEB419

NEOPLASM

HUMOR MANIFESTATIONS OF NEOPLASMS. Bartuska DG *Semin Oncol* 2: 405-9, Dec 75 (Eng) DL/77FEB401

NEOPLASM, RENAL

ACUTE PYELONEPHRITIS SIMULATING POORLY VASCULARIZED RENAL NEOPLASM. NON-SPECIFICITY OF ANGIOGRAPHIC CRITERIA. Barth KH, Lightman NI, Ridolfi RL, Catalona WJ *J Urol* 116: 650-2, Nov 76 (Eng) DL/77FEB216

NERVE GROWTH FACTOR

THE ROLE OF NERVE-GROWTH FACTOR (NGF) IN THE CENTRAL NERVOUS SYSTEM. Freed WJ *Brain Res Bull* 1: 393-412, Jul-Aug 76 (Eng) [243] DL/77FEB33

NERVE METABOLISM

THE ROLE OF ABNORMALITIES IN NERVE METABOLISM IN THE PATHOGENESIS OF DIABETIC PERIPHERAL NEUROPATHY. Clements RS *Ala J Med Sci* 13: 399-404, Oct 76 (Eng) DL/77FEB478

NERVE, SYMPATHETIC

RELEASE OF ADENOSINE-LIKE MATERIAL FROM ISOLATED PERFUSED DOG ADIPOSE TISSUE FOLLOWING SYMPATHETIC NERVE STIMULATION AND ITS INHIBITION BY ADRENERGIC ALPHA-RECEPTOR

BLOCKADE. Fredholm BB *Acta Physiol Scand* 96: 122-30, Mar 76 (Eng) *DL/77FEB689

NERVOUS SYSTEM, CENTRAL

THE ROLE OF NERVE-GROWTH FACTOR (NGF) IN THE CENTRAL NERVOUS SYSTEM. Freed WJ *Brain Res Bull* 1: 393-412, Jul-Aug 76 (Eng) [243] DL/77FEB33

CENTRAL NERVOUS SYSTEM-MEDIATED STIMULATION OF GLUCAGON SECRETION IN THE DOG FOLLOWING 2-DEOXYGLUCOSE. Frohman LA, Nagai K *Metabolism* 25: 1449-52, Nov 76 (Eng) DL/77FEB295

NEUROBLASTOMA CELL

REGULATION OF GLYCOGEN METABOLISM IN ASTROCYTOMA AND NEUROBLASTOMA CELLS IN CULTURE. Passonneau JV, Crites SK *J Biol Chem* 241: 2015-22, 10 Apr 76 (Eng) *DL/77FEB568

NEUROENDOCRINE

NEUROENDOCRINE CONTROL OF GROWTH HORMONE SECRETION: EXPERIMENTAL AND CLINICAL STUDIES. PP. 236-51. Liuzzi A, Panerai AE, Chiodini PG, Secchi C, Cocchi D, Botalla L, Silvestrini F, Muller EE *Ino Picole A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381* 1975. (Eng) DL/77FEB185

NEUROENDOCRINE STUDIES OF DEPRESSIVE ILLNESS. Sachar EJ, Roffwarg HP, Gruen PH, Altman N, Sassini J *Pharmacopsychiatr Neuropsychopharmacol* 9: 11-7, Jan 76 (Eng) DL/77FEB363

NEUROHUMORAL

NEUROHUMORAL REGULATION OF THE PANCREATIC ISLET A AND B CELLS. Porte D Jr, Smith PH, Ensink JW *Metabolism* 25: 1453-6, Nov 76 (Eng) [21] DL/77FEB296

NEUROHUMORS, ADRENERGIC

ADRENERGIC NEUROHUMORS IN THE HEART OF HAMSTERS WITH HEREDITARY MYOPATHY DURING CARDIAC HYPERTROPHY AND FAILURE. Angelakos ET, Carballo LC, Daniels JB, King MP, Bajusz E *Recent Adv Stud Cardiac Struct Metab* 1: 262-78, 1972 (Eng) *DL/77FEB641

NEUROPATHY, DIABETIC

[PLACE AND RESPONSIBILITY OF VASCULAR LESIONS IN DIABETIC NEUROPATHIES] Pirart J *Rev Prat* 26: 3149-56, 11 Oct 76 (Fre) [61] DL/77FEB386

NEUROPATHY, DIABETIC AUTONOMIC

PLASMA RENIN ACTIVITY IN DIABETIC AUTONOMIC NEUROPATHY. Campbell IW, Ewing DJ, Anderson JL, Thompson JH, Horn DB, Clarke BF *Eur J Clin Invest* 6: 381-5, 10 Sep 76 (Eng) DL/77FEB73

NEUROPATHY, PERIPHERAL

DIABETIC PERIPHERAL NEUROPATHY. Petrlik JC *Am J Nurs* 76: 1794-7, Nov 76 (Eng) DL/77FEB468

THE ROLE OF ABNORMALITIES IN NERVE METABOLISM IN THE PATHOGENESIS OF DIABETIC PERIPHERAL NEUROPATHY. Clements RS *Ala J Med Sci* 13: 399-404, Oct 76 (Eng) DL/77FEB478

NEUROTENSIN

NEUROTENSIN AND SUBSTANCE-P: EFFECTS ON PLASMA INSULIN AND GLUCAGON LEVELS. Brown M, Villarreal J, Vale W. *Metabolism* 25: 1459-61, Nov 76 (Eng) DL/77FEB298

EFFECTS OF NEUROTENSIN AND SUBSTANCE P ON INSULIN AND GLUCAGON RELEASE BY THE PERFUSED DOG PANCREAS [PROCEEDINGS]. Patton G, Brown M, Dobbs R, Vale W, Unger RH. *Metabolism* 25: 1465, Nov 76 (Eng) DL/77FEB300

COMPARISON STUDIES OF NEUROTENSIN AND XENOPSIN UPON PANCREATIC SECRETION IN THE DOG [PROCEEDINGS]. Ishida T, Kawamura K, Goto A, Nishina Y, Takahara J. *Metabolism* 25: 1467, Nov 76 (Eng) DL/77FEB301

NEWBORN

RAPID ONSET OF ESSENTIAL FATTY ACID DEFICIENCY IN THE NEWBORN. Friedman Z, Danon A, Stahlman MT, Oates JA. *Pediatrics* 58: 640-9, Nov 76 (Eng) DL/77FEB337

[BEHAVIOUR OF SERUM CONCENTRATIONS OF GLUCOSE, IMMUNOREACTIVE INSULIN AND POTASSIUM IONS IN NEWBORNS AFTER LONG TERM OR CRASH TREATMENTS WITH PARTUSISTEN OR PARTUSISTEN IN COMBINATION WITH ISOPTIN (AUTHORS TRANSL.) Weidinger H, Mohr D, Haller K, Hiltmann WD, Vogel M. *Z Geburtshilfe Perinatol* 180: 258-65, Aug 76 (Ger) DL/77FEB439

CEREBRAL LESIONS OF MATURE NEWBORN DUE TO PERINATAL HYPOXIA. II. MOTHERS DISEASES. Nyka WM. *Z Geburtshilfe Perinatol* 180: 295-9, Aug 76 (Eng) DL/77FEB440

PROTEIN KINASES AND THEIR SUBSTRATES IN BROWN ADIPOSE TISSUE FROM NEWBORN RATS. Knight BL. *Biochim Biophys Acta* 429: 798-808, 13 May 76 (Eng) *DL/77FEB521

NEWBORN INFANT

[INTRAVENOUS AND ORAL GLUCOSE: PRODUCTION OF INSULIN AND GROWTH HORMONE IN THE NEWBORN INFANT]. Dorantes Alvarez L, De Los Monteros Mena AE, Matus Seucira A, Chavarria Bonequi C. *Bol Med Hosp Infant Mex* 33: 979-92, Sep-Oct 76 (Spa) DL/77FEB3

NICOTINE

EFFECT OF CHRONIC ADMINISTRATION OF NICOTINE ON METABOLIC RESPONSES AND INTESTINAL GLUCOSE TRANSPORT. PP. 127-36. Bhagat B, van Beaumont W, Ellert MS. In: Singh JM, Lal H, ed. *Drug addiction. Vol 40. New aspects of analytical and clinical toxicology*. New York, Stratton, 1974. W3 IN917KC 1973d. (Eng) [15] *DL/77FEB593

NICOTINIC ACID

EFFECT OF SOMATOSTATIN ON METABOLIC AND HORMONAL CHANGES INDUCED BY NICOTINIC ACID IN INSULIN-DEPENDENT DIABETICS. Luyckx AS, Lefebvre PJ. *Diabetologia* 12: 447-53, Oct 76 (Eng) DL/77FEB113

NORADRENALINE

[EFFECT OF ADRENALINE, NORADRENALINE, DOPAMINE, DOPA AND PHENYLALANINE ON LIPID PEROXIDATION IN LIVER MITOCHONDRIA MEMBRANES]. Sergeev PV, Seifulla RD, Dunayev VG,

Rudnev IuN. *Biull Eksp Biol Med* 80: 25-8, Dec 75 (Rus) *DL/77FEB526

NOREPINEPHRINE, METABOLISM

METABOLISM OF NOREPINEPHRINE IN NONINFARCTED HEART MUSCLE AFTER EXPERIMENTAL MYOCARDIAL INFARCTION. Mathes P, Sack DW, Gudbjarnason S. *Recent Adv Stud Cardiac Struct Metab* 7: 283-7, 1975 (Eng) *DL/77FEB670

NORTH CAROLINA

COMPARISON OF HOSPITAL ADMISSIONS FOR CEREBROVASCULAR DISEASE IN MICHIGAN AND NORTH CAROLINA. Wylie CM, Carpenter JO. *J Community Health* 2: 21-30, Fall 76 (Eng) DL/77FEB170

NUCLEAR MAGNETIC RESONANCE

STRUCTURAL STUDIES ON DES-PENTAPEPTIDE (B26-30)-INSULIN. V. HIGH RESOLUTION NMR STUDIES. Anonymous. *Sci Sin* 19: 497-504, Jul-Aug 76 (Eng) DL/77FEB397

NUCLEIC ACID

[CHANGE OF THE CONTENT OF NUCLEIC ACIDS IN THE BLOOD OF PATIENTS WITH DIABETES MELLITUS DEPENDING ON THE SEVERITY OF THE DISEASE]. Franchuk MM. *Vrach Delo* 76-8, Sep 76 (Rus) DL/77FEB428

NUCLEOTIDE

CONTROL OF HEPATIC PROLIFERATION: A WORKING HYPOTHESIS INVOLVING HORMONES, LIPOPROTEINS, AND NOVEL NUCLEOTIDES. Koch KS, Loeffert HL. *Metabolism* 25: 1419-22, Nov 76 (Eng) DL/77FEB287

NUCLEOTIDE, CYCLIC

GROWTH HORMONE, CYCLIC NUCLEOTIDES AND THE RAPID CONTROL OF TRANSLATION IN HEART MUSCLE. Mowbray J, Davies JA, Bates DJ, Jones CJ. *Biochem J* 152: 583-92, Dec 75 (Eng) *DL/77FEB712

NUTRIENT

CONTROL OF GLUCAGON SECRETION BY NUTRIENTS IN VITRO. Matschinsky FM, Pagliara AS. *Metabolism* 25: 1435-6, Nov 76 (Eng) DL/77FEB291

NUTRIENT CANAL

A RADIOGRAPHIC STUDY OF NUTRIENT CANALS. Patel JR, Wuehrmann AH. *Oral Surg* 42: 693-701, Nov 76 (Eng) DL/77FEB332

NUTRITION

THE ROLE OF NUTRITION IN HUMAN AGING. PP. 29-45. Caster WO. In: Rockstein M, Sussman ML, ed. *Nutrition, longevity, and aging*. New York, Academic Press, 1976. W104 N977 1976. (Eng) [71] DL/77FEB192

THE ROLE OF NUTRITION TO DIABETES IN RELATION TO AGE. PP. 229-52. Gerritsen GC. In: Rockstein M, Sussman ML, ed. *Nutrition, longevity, and aging*. New York, Academic Press, 1976. W104 N977 1976. (Eng) [84] DL/77FEB193

NUTRITIONAL HEALTH IN A CHANGING SOCIETY - STUDIES FROM ISRAEL. Guggenheim K, Kaufmann NA. *World Rev Nutr Diet* 24: 217-40, 1976 (Eng) [67] DL/77FEB436

NUTRITION, PARENTERAL

INSULIN LOSS IN PARENTERAL NUTRITION SYSTEMS. Oh TE, Dyer H, Wall BP, Hall RA, Jellat LB. *Anaesth Intensive Care* 4: 342-6, Nov 76 (Eng) DL/77FEB484

OBESE

METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E. *Diabete Metab* 1: 77-83, Jun 75 (Eng) DL/77FEB95

SERUM LIPID CHANGES DURING CONTRACEPTIVE ADMINISTRATION IN OBESE WOMEN: RELATION TO SERUM INSULIN LEVELS. Gershtberg H, Hulsh M, Galler MJ. *Clin Endocrinol Metab* 43: 861-5, Oct 76 (Eng) DL/77FEB168

THE INSULIN RECEPTOR IN NORMAL AND OBESE PERSONS. Beck-Nielsen H, Pedersen O, Bagger JP, Sorensen NS. *Acta Endocrinol (Kbh)* 83: 565-75, Nov 76 (Eng) DL/77FEB456

TRIGLYCERIDE METABOLISM IN EPIDIDYMAL ADIPOSE TISSUE OF OBESE ANIMALS. Okuda H. *Pharmacol Biochem Behav* 3: 145-7, 1975 (Eng) *DL/77FEB626

EMOTIONAL LABELING AND OVEREATING IN OBESE AND NORMAL WEIGHT INDIVIDUALS. Slochower J. *Psychosom Med* 38: 131-9, Mar-Apr 76 (Eng) *DL/77FEB629

OBESITY

CARBOHYDRATE TOLERANCE AND OBESITY. Breidahi HD. *Med J Aust* 1: 9-10, 19 Jun 76 (Eng) DL/77FEB319

[RELATIONSHIP BETWEEN HORMONE CONCENTRATION IN PERIPHERAL BLOOD IN HYPERTENSION, ARTERIOSCLEROSIS AND OBESITY]. Kokina LP, Lyskova MN, Tkacheva GA, Gabunia RI, Syzgantseva LM. *Ter Arkh* 48: 81-4, 1976 (Rus) DL/77FEB410

[EARLY POSTNATAL OVERFEEDING AS AN ETIOPATHOGENETIC FACTOR IN ADULT OBESITY]. Dornier G, Hagen N, Witthuhn W. *Acta Biol Med Ger* 35: 799-803, 1976 (Ger) DL/77FEB453

[INTESTINAL BY-PASS FOR OBESITY (AUTHORS TRANSL.)]. Van Baden M. *Acta Chir Belg* 75: 269-93, May 76 (Dut) DL/77FEB454

THE AETIOLOGY OF OBESITY IN CHILDREN. A STUDY OF 101 TWIN PAIRS. Borjeson M. *Acta Paediatr Scand* 65: 279-87, May 76 (Eng) *DL/77FEB686

OBSTETRICAL

[OBSTETRICAL BRACHIAL PLEXUS INJURIES. A STUDY ON PERINATAL MORBIDITY]. Vrouwenarts PE, Arts JP, Kinderneuroloog PF. *Ned Tijdschr Geneesk* 120: 1666-72, 2 Oct 76 (Dut) DL/77FEB329

OFFSPRING

[PROPORTION OF LOW INSULIN RESPONDERS TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL.)]. Vague P, Ramahandridona G, Vague J. *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77FEB87

MATERNAL PROTEIN MALNUTRITION DURING GESTATION ALONE AND ITS EFFECTS ON PLASMA INSULIN LEVELS OF THE PREGNANT PIG, ITS FETUSES AND THE DEVELOPING OFFSPRING. Atinmo T, Bal-dijao C, Pond WG, Barnes RH. *J Nutr* 106: 1647-53, Nov 76 (Eng) DL/77FEB203

Diabetes Literature—Keyword Index

OLD

OLD

MONCKEBERGS ARTERIOSCLEROSIS REVISITED: OR SILVER VESSELS AMONG THE OLD. Moskowitz M, Verani M *J Can Assoc Radiol* 27: 200-2, Sep 76 (Eng) DL/77FEB162

OLIGOSACCHARIDE

[STUDY OF THE FUCOSE-RICH OLIGOSACCHARIDES IN THE URINE OF HEALTHY AND MELITURIC SUBJECTS WITH A, B AND O BLOOD GROUPS] Strecker G, Trentesaux-Chauvet C, Poitou A, Montreuil J *Biochimie* 58: 805-14, 1976 (Fre) DL/77FEB11

OPERATION

HYPOGLYCAEMIA IN CHILDREN UNDERGOING OPERATIONS [LETTER]. Simpson JC *Br Med J* 2: 758, 25 Sep 76 (Eng) DL/77FEB25

ORAL

THE EFFECT OF ORAL RITODRINE ON MATERNAL AND FETAL CARBOHYDRATE METABOLISM. Blouin D, Murray MA, Beard RW *Br J Obstet Gynaecol* 83: 711-5, Sep 76 (Eng) DL/77FEB8

ORAL CANDIDA

ORAL CANDIDA, DEBILITATING DISEASE AND ATROPHIC LESIONS OF THE TONGUE. Farman AG, Nutt G *J Biol Buccale* 4: 203-26, Sep 76 (Eng) DL/77FEB158

ORAL CONTRACEPTIVE

MYOCARDIAL INFARCTION IN YOUNGER WOMEN. ASSOCIATED CLINICAL FEATURES AND RELATIONSHIP TO USE OF ORAL CONTRACEPTIVE DRUGS. Arthes FG, Masi AT *Chest* 70: 574-83, Nov 76 (Eng) DL/77FEB60

ORAL GLUCOSE

[INTRAVENOUS AND ORAL GLUCOSE: PRODUCTION OF INSULIN AND GROWTH HORMONE IN THE NEWBORN INFANT] Durantes Alvarez L, De Los Monteros Mena AE, Matus Scucira A, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 979-92, Sep-Oct 76 (Spa) DL/77FEB3

[GLUCOSE TOLERANCE TESTS WITH ORAL GLUCOSE CHALLENGES OF 50 AND 100 GRAMS (AUTHORS TRANSL)] Federico RD, Jablonka S, Mello EH, Reis LC *Rev Bras Pesqui Med Biol* 9: 213-6, Sep 76 (Por) DL/77FEB371

ORAL GLUCOSE TOLERANCE

[COMPARATIVE STUDIES ON THE ORAL GLUCOSE TOLERANCE USING 50 AND 100G OF GLUCOSE WITH SPECIAL REFERENCE TO VARIOUS LIPID-METABOLISM PARAMETERS] Meinel H, Wolff E *Z Aerzt Fortbild (Jena)* 70: 943-6, 1 Sep 76 (Ger) DL/77FEB437

ORAL GLUCOSE TOLERANCE TEST

ORAL GLUCOSE TOLERANCE TEST IN THE CYNOMOLGUS MONKEY (MACACA FASCICULARIS). Honjo S, Kondo Y, Cho F *Lab Anim Sci* 26: 771-6, Oct 76 (Eng) DL/77FEB231

ORAL HYPOGLYCEMIC AGENT

CLINICAL USE OF ORAL HYPOGLYCEMIC AGENTS. Hagg SA *Am J Hosp Pharm* 33: 943-7, Sep 76 (Eng) [60] DL/77FEB467

ORAL THERAPY

[ORAL THERAPY OF DIABETES MELLITUS BY COMBINATION OF HYPOGLYCEMIC AGENTS] Grujic M, Perinovic M, Rizvanbegovic B *Med Arh* 30: 167-71, May-Jun 76 (Ser) DL/77FEB238

ORAL TREATMENT

[DIABETES MELLITUS UNDER 30 YEARS OF AGE. RESULTS OF 18 YEARS EXPERIENCE WITH ORAL TREATMENT (AUTHORS TRANSL)] Mirouze J, Cartry E *Diabete Metab* 1: 113-8, Jun 75 (Fre) DL/77FEB92

ORGAN

ORGAN DISTRIBUTION OF RAT HISTIDINE-PYRUVATE AMINOTRANSFERASE ISOENZYMES. Noguchi T, Minatogawa Y, Okuno E, Kido R *Biochem J* 157: 635-41, 1 Sep 76 (Eng) DL/77FEB502

ORGAN CULTURE

GLUCOSE UPTAKE BY NORMAL HUMAN BREAST TISSUE IN ORGAN CULTURE. INFLUENCE OF INSULIN AND OTHER ADDITIVES. van Bogaert LJ *Cell Tissue Res* 171: 535-41, 1 Sep 76 (Eng) DL/77FEB40

FOETAL RAT PANCREAS IN ORGAN CULTURE. EFFECT OF CORTICOSTERONE CONCENTRATIONS ON THE ACINAR AND ISLET CELL COMPONENTS. McEvoy RC, Hegre OD, Lazarow A *Differentiation* 6: 17-26, 16 Mar 76 (Eng) DL/77FEB125

ORGAN PERFUSION

BEHAVIOR OF THE LYSOSOMAL SYSTEM DURING ORGAN PERFUSION. AN INQUIRY INTO THE MECHANISM OF HEPATIC PROTEOLYSIS. Mortimore GE, Ward WF *Front Biol* 45: 157-84, 1976 (Eng) [65] DL/77FEB80

ORGANIC PHOSPHATE

THE EFFECT OF HYPERTHERMIA UPON OXYGEN CONSUMPTION AND UPON ORGANIC PHOSPHATES, GLYCOLYTIC METABOLITES, CITRIC AND CYCLE INTERMEDIATES AND ASSOCIATED AMINO ACIDS IN RAT CEREBRAL CORTICES. Carlsson C, Hagerdal M, Siesjo BK *J Neurochem* 26: 1001-6, May 76 (Eng) *DL/77FEB599

ORNITHINE DECARBOXYLASE

INDUCTION OF ORNITHINE DECARBOXYLASE IN CULTURED MOUSE L CELLS. I. EFFECTS OF CELLULAR GROWTH, HORMONES, AND ACTINOMYCIN D. Yamasaki Y, Ichihara A *J Biochem (Tokyo)* 80: 557-62, Sep 76 (Eng) DL/77FEB157

STIMULATION OF DNA SYNTHESIS, CELL MULTIPLICATION, AND ORNITHINE DECARBOXYLASE IN 3T3 CELLS BY MULTIPLICATION STIMULATING ACTIVITY (MSA). Nissley SP, Passamani J, Short P *J Cell Physiol* 89: 393-402, NOV 76 (Eng) DL/77FEB163

ORTHOPHOSPHATE

[32P] ORTHOPHOSPHATE EFFLUX FROM PANCREATIC ISLETS: GRADIENT RESPONSE TO GLUCOSE STIMULATION. Pierce M, Bukowiecki L, Asplund K, Freinkel N *Horm Metab Res* 8: 358-61, Sep 76 (Eng) DL/77FEB142

OSTEOPOROSIS

DIABETES MELLITUS AND OSTEOPOROSIS. Forgacs S, Rosinger A, Vertes L *Endocrinologie* 67: 343-50, 1976 (Eng) DL/77FEB69

OVARIAN TRANSPLANTATION

A MICROSURGICAL TECHNIQUE FOR ORTHOTOPIC OVARIAN TRANSPLANTATION IN THE CHINESE HAMSTER. Schmidt FL, Miller RL, Peterson T, Soret MG *Surgery* 80: 595-600, Nov 76 (Eng) DL/77FEB409

OVEREATING

EMOTIONAL LABELING AND OVEREATING IN OBSE AND NORMAL WEIGHT INDIVIDUALS. Slochower J *Psychosom Med* 38: 131-9, Mar-Apr 76 (Eng) *DL/77FEB629

OVERFEEDING

[EARLY POSTNATAL OVERFEEDING AS AN ETIOPATHOGENETIC FACTOR IN ADULT OBESITY] Dorner G, Hagen N, Witthuhn W *Acta Biol Med Ger* 35: 799-803, 1976 (Ger) DL/77FEB453

OXIDATION, FATTY ACID

SOME ASPECTS OF FATTY ACID OXIDATION IN ISOLATED FAT-CELL MITOCHONDRIA FROM RAT. Harper RD, Saggerson ED *Biochem J* 152: 485-94, Dec 75 (Eng) *DL/77FEB711

OXIDATION, GLUCOSE

THE EFFECTS OF MAZINDOL AND 46-034 (SANDOZ) ON GLUCOSE OXIDATION AND INSULIN BINDING BY RAT ISOLATED FAT CELLS. Harrison LC, King-Roach AP *Clin Exp Pharmacol Physiol* 3: 503-6, Sep-Oct 76 (Eng) DL/77FEB46

EFFECTS OF MITOGENS ON GLUCOSE OXIDATION BY LYMPHOCYTES FROM NORMAL INDIVIDUALS AND PATIENTS WITH CHRONIC LYMPHOCYTIC LEUKEMIA. Tsan MF, Chen WY, Newman B, Wagner HN Jr, McIntyre PA *Johns Hopkins Med J* 138: 113-8, Apr 76 (Eng) *DL/77FEB603

OXIDATIVE ACTIVITY

[EFFECT OF VARIOUS INHIBITORS ON OXIDATIVE ACTIVITY AND ULTRASTRUCTURE OF RAT LIVER MITOCHONDRIA] Latruffe N, Lenys D, Gaudemer Y, Bugnon CC *R Soc Biol (Paris)* 169: 1290-5, 1975 (Fre) *DL/77FEB529

OXYGEN

EFFECTS OF CHANGES IN THE CONCENTRATIONS OF SUBSTRATE AND OXYGEN ON THE PERFUSED RABBIT HEART. Whereat AF, Nelson JB *Recent Adv Stud Cardiac Struct Metab* 7: 211-7, 1975 (Eng) *DL/77FEB660

OXYGEN CONSUMPTION

THE EFFECT OF HYPERTHERMIA UPON OXYGEN CONSUMPTION AND UPON ORGANIC PHOSPHATES, GLYCOLYTIC METABOLITES, CITRIC AND CYCLE INTERMEDIATES AND ASSOCIATED AMINO ACIDS IN RAT CEREBRAL CORTICES. Carlsson C, Hagerdal M, Siesjo BK *J Neurochem* 26: 1001-6, May 76 (Eng) *DL/77FEB599

INFLUENCE OF FREE FATTY ACIDS ON MYOCARDIAL MECHANICS AND OXYGEN CONSUMPTION IN RAT PAPILLARY MUSCLES AND PERFUSED HEARTS, UNDER

Diabetes Literature—Keyword Index

PANCREATECTOMY, TOTAL

THE USE OF FICOLL IN THE SEPARATION OF VIABLE ISLETS OF LANGERHANS FROM THE RAT PANCREAS. Nash JR, Horlor M, Bell PR *Transplantation* 22: 411-2, Oct 76 (Eng) DL/77FEB415

[MODIFICATION OF INSULIN-SECRETION, INDUCED BY GLUCOSE, OF THE ISOLATION-PERFUSED RAT PANCREAS USING TOLBUTAMIDE, GLUCOSAMINE, DIAZOXIDE, GLUCAGON AND ENDOGENOUS INSULIN] Bierwolf B, Blech W *Acta Biol Med Ger* 35: 583-95, 1976 (Ger) DL/77FEB450

CHANGES IN CARBOHYDRATE METABOLISM AND ENDOCRINE FUNCTION OF REMNANT PANCREAS AFTER MAJOR PANCREATIC RESECTION. Yasugi H, Mizumoto R, Sakurai H, Honjo I *Am J Surg* 132: 577-80, Nov 76 (Eng) DL/77FEB477

STUDIES WITH THE AUTOTRANSPLANTED OVINE PANCREAS: GLUCAGON AND INSULIN SECRETION. Arcus AC, Ellis MJ, Kirk RD, Beaven DW, Donald RA, Hart DS, Holland GW, Redekopp C *Aust J Biol Sci* 29: 223-36, Jul 76 (Eng) DL/77FEB496

EFFECTS OF GROWTH HORMONE-RELEASE INHIBITING HORMONE (GH-RIH OR SOMATOSTATIN) ON SECRETORY PROCESSES IN STOMACH AND PANCREAS. PP. 407-12. Albusin M, Case RM, Reed JD, Shaw B, Smith PA, Gomez-Pan A, Hall R, Besser GM, Schally AV *Ino Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract. Baltimore, Univ Park Press, 1976. WI 102 5859 1975.* (Eng) *DL/77FEB586

[EXPERIMENTAL TRANSPLANTATION OF THE PANCREAS AND DUODENUM] Gutauskas M *Pol Przegl Chir* 48: 481-5, Apr 76 (Pol) *DL/77FEB621

PANCREAS, ENDOCRINE

FUNCTIONAL DIFFERENTIATION OF THE CHICK ENDOCRINE PANCREAS. II. THE ALPHA CELLS AND GLUCAGON. Benzo CA, Stearns SB *Am J Anat* 147: 273-9, Nov 76 (Eng) DL/77FEB465

PANCREAS, FETAL

[FUNCTION TEST OF THE HUMAN FETAL PANCREAS (AUTHORS TRANSL)] Nakai T, Yamada R *Jpn J Clin Pathol* 24: 673-7, Aug 76 (Jpn) DL/77FEB221

PANCREAS INSULOMA

[SCINTIGRAPHY OF THE PANCREAS IN INSULOMA] Romanova A, Zografski A, Kaneti Ia *Vutr Boles* 14: 123-7, 1975 (Bul) *DL/77FEB682

PANCREAS, ISOLATED

POTENTIAL OF GLUCOSE-INDUCED INSULIN RELEASE BY GLUCOSE IN THE ISOLATED PANCREAS OF FED AND FASTED RATS. Efendic S, Cerasi E, Luft R, Gladnikoff G *Diabetes* 25: 949-54, Oct 76 (Eng) DL/77FEB102

PANCREATECTOMY

IMMUNOREACTIVE GLUCAGON RESPONSES TO ARGININE IN THREE PANCREATECTOMIZED HUMANS. Palmer JP, Werner PL, Benson JW, Ensink JW *Metabolism* 25: 1483-5, Nov 76 (Eng) DL/77FEB305

PANCREATECTOMY, TOTAL

[TOTAL PANCREATECTOMY (EDITORIAL)] Trede M *Langenbecks Arch Chir* 340: 227-30, 23 Apr 76 (Ger) DL/77FEB254

PALMITYL-COA

SOME FACTORS AFFECTING CHAIN ELONGATION OF PALMITYL-COA IN RAT LIVER MICROSOMES. Nakagawa M, Kawashima Y, Uchiyama M *Chem Pharm Bull (Tokyo)* 24: 46-51, Jan 76 (Eng) *DL/77FEB533

PALMITYLTRANSFERASE, CARNITINE

CARNITINE PALMITYLTRANSFERASE ACTIVITY DURING MYOCARDIAL ISCHEMIA AND AT LOW IONIC STRENGTHS. McMillin Wood J *Recent Adv Stud Cardiac Struct Metab* 7: 335-9, 1975 (Eng) *DL/77FEB673

PANCREAS

MECONIUM ILEUS EQUIVALENT IN ADULTS WITH CYSTIC FIBROSIS OF PANCREAS: A REPORT OF SIX CASES. Hodson ME, Mearns MB, Batten JC *Br Med J* 2: 790-1, 2 Oct 76 (Eng) DL/77FEB27

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteceuvre M, Bunea JJ *Diabetes Metab* 1: 101-11, Jun 75 (Eng) DL/77FEB91

THE INHIBITION OF INSULIN SECRETION FROM THE PERFUSED RAT PANCREAS AFTER THYROID TREATMENT. Lenzen S, Joost HG, Hasselblatt A *Diabetologia* 12: 495-500, Oct 76 (Eng) DL/77FEB118

FETAL RAT PANCREAS IN ORGAN CULTURE. EFFECT OF CORTICOSTERONE CONCENTRATIONS ON THE ACINAR AND ISLET CELL COMPONENTS. McEvoy RC, Hegre OD, Lazarow A *Differentiation* 6: 17-26, 16 Mar 76 (Eng) DL/77FEB125

EVIDENCE FOR A HYPOPHYSAL FACTOR THAT STIMULATES INSULIN SECRETION BY THE PANCREAS (INSULOTROPINE) Chierri RA, Basabe JC, Farina JM *Horm Metab Res* 8: 329-32, Sep 76 (Eng) DL/77FEB137

THE CONTRIBUTION OF THE PANCREAS AND THE INTESTINE TO THE REGULATION OF LIPOLYSIS IN BIRDS. 2. IMPAIRED LIPOLYTIC ACTIVITY OF PANCREATIC GLUCAGON IN THE ABSENCE OF EITHER THE PANCREAS OR THE INTESTINE IN THE CHICKEN. Krug E, Gross R, Mialhe P *Horm Metab Res* 8: 345-50, Sep 76 (Eng) DL/77FEB139

IONOPHORE A23187-INDUCED INSULIN SECRETION IN THE ISOLATED, PERFUSED DOG PANCREAS. Conaway HH, Griffey MA, Marks SR, Whitney JE *Horm Metab Res* 8: 351-3, Sep 76 (Eng) DL/77FEB140

EFFECTS OF NEUROTENSIN AND SUBSTANCE P ON INSULIN AND GLUCAGON RELEASE BY THE PERFUSED DOG PANCREAS [PROCEEDINGS]. Patton G, Brown M, Dobbs R, Vale W, Unger RH *Metabolism* 25: 1465, Nov 76 (Eng) DL/77FEB300

REGULATION OF GLUCAGON SECRETION OF THE DIABETIC PANCREAS IN VITRO [PROCEEDINGS]. Matschinsky FM, Pagliara AS *Metabolism* 25: 1517, Nov 76 (Eng) DL/77FEB313

GLUCAGON SECRETION FROM THE PERFUSED RAT PANCREAS FOLLOWING ACUTE AND CHRONIC STREPTOZOTOCIN. Weir GC, Atkins RF, Martin DB *Metabolism* 25: 1519-21, Nov 76 (Eng) DL/77FEB314

INHIBITION OF THE GLUCOSE INDUCED INSULIN RELEASE BY SOMATOSTATIN IN THE ISOLATED PERFUSED RAT PANCREAS. ACTION OF CYCLIC AMP, GLUCAGON AND GLIBENCLAMIDE. Osorio J, Campillo JE, de los Arcos JG, Pages I, Rodriguez E, Marasco M, Melani F *Rev Esp Fisiol* 32: 211-6, Sep 76 (Eng) DL/77FEB372

OXYGENATED AND HYPOXIC CONDITIONS. Henderson AH, Sonnenblick EH *Recent Adv Stud Cardiac Struct Metab* 1: 147-62, 1972 (Eng) *DL/77FEB636

INFLUENCES OF DIETARY FATS ON THE CORONARY FLOW AND OXYGEN CONSUMPTION OF THE ISOLATED RAT HEART. de Deckere EA, ten Hoor F *Recent Adv Stud Cardiac Struct Metab* 7: 475-83, 1975 (Eng) *DL/77FEB676

OXYGEN METABOLISM

OXYGEN METABOLISM IN THE ALVEOLAR MACROPHAGE: FRIEND AND FOE Bernard J, Gee JB, Khandwala AS *J Reticuloendothel Soc* 19: 229-36, Apr 76 (Eng) *DL/77FEB601

OXYGEN, MYOCARDIAL

PATHOGENIC SIGNIFICANCE OF DISPROPORTION BETWEEN MYOCARDIAL OXYGEN SUPPLY AND CONSUMPTION. Scheuer J *Recent Adv Stud Cardiac Struct Metab* 1: 721-8, 1972 (Eng) *DL/77FEB652

OXYGEN TENSION

RAT GASTRIC MUCOSAL OXYGEN TENSION, ULCER INDEX, PLASMA GASTRIN AND GLUCAGON FOLLOWING RESTRAINT STRESS. INFLUENCE OF VAGOTOMY, SPANICOTOMY AND EXOGENOUS SECRETIN. Schwille PO, Schellner W, Steiner H, Reitzenstein M *Res Exp Med (Berl)* 167: 149-58, 15 May 76 (Eng) DL/77FEB375

OXYGEN UPTAKE AND TISSUE OXYGEN TENSION DURING ADRENERGIC STIMULATION IN CANINE SUBCUTANEOUS ADIPOSE TISSUE. Fredholm BB, Linde B, Prewitt RL, Johnson PC *Acta Physiol Scand* 97: 48-59, Mar 76 (Eng) *DL/77FEB690

OXYGEN UPTAKE

OXYGEN UPTAKE AND TISSUE OXYGEN TENSION DURING ADRENERGIC STIMULATION IN CANINE SUBCUTANEOUS ADIPOSE TISSUE. Fredholm BB, Linde B, Prewitt RL, Johnson PC *Acta Physiol Scand* 97: 48-59, Mar 76 (Eng) *DL/77FEB690

PACEMAKER

EFFECT OF SECRETIN ON PACEMAKER ACTIVITY AND CONTRACTILITY IN THE ISOLATED BLOOD-PERFUSED ATRIUM OF THE DOG. Chiba S *Clin Exp Pharmacol Physiol* 3: 167-72, Mar-Apr 76 (Eng) DL/77FEB45

PACHYDERMO PERIOSTOSIS

[3 INCIDENTAL OBSERVATIONS OF PACHYDERMO-PERIOSTOSIS] Djian A, Sebaoun J, Beasley N *Rev Rhum Mal Osteoartic* 43: 528-32, Jul-Sep 76 (Fre) DL/77FEB389

PALMITATE

EFFECT OF PALMITATE ON HYPOXIC MYOCARDIAL METABOLISM AND CONTRACTILITY. Apstein CS, Gmeiner R, Brachfeld N *Recent Adv Stud Cardiac Struct Metab* 1: 136-46, 1972 (Eng) *DL/77FEB635

PALMITIC ACID

[EFFECT OF GAMMA RAYS FROM 60CO ON THE IN VITRO INCORPORATION OF PALMITIC ACID IN LIPIDS OF RAT LIVER MICROSOMES] Magdalou J, Doussset N, Douste-Blazy L *Int J Radiat Biol* 29: 27-35, Jan 76 (Fre) *DL/77FEB565

Diabetes Literature—Keyword Index

PANCREATIC

TOTAL PANCREATECTOMY IN THE TREATMENT OF ACUTE NECROTISING AND HEMORRHAGIC PANCREATITIS. INDICATIONS-TECHNIQUE. Alexandre JH, Chambon H, Assan R *Langenbecks Arch Chir* 340: 231-47, 23 Apr 76 (Eng) DL/77FEB255

PLASMA GLUCAGON IN DIABETES RESULTING FROM TOTAL PANCREATECTOMY [PROCEEDINGS]. Bloom SR, Barnes AJ, Bryant MG, Alberti KG *Metabolism* 25: 1481-2, Nov 76 (Eng) DL/77FEB304

PANCREATIC

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltz C, Leclercq-Meyer V, Mialhe P *Diabetes Metab* 1: 39-44, Mar 75 (Eng) DL/77FEB86

[GIANT TUMOR OF THE MEDIASTINUM ASSOCIATED WITH HYPOGLYCEMIA: STUDY OF HYPOGLYCEMIA CAUSED BY EXTRA-PANCREATIC TUMOR] Ishikawa S, Suzuki R, Onishi T *Jpn Assoc Thorac Surg* 24: 967-75, Jul 76 (Jpn) DL/77FEB194

ADRENAL AND PANCREATIC ENDOCRINE RESPONSES TO HYPOXIA IN THE CONSCIOUS CALF. Bloom SR, Edwards AV, Hardy RN, Silver M *J Physiol (Lond)* 261: 271-83, Oct 76 (Eng) DL/77FEB212

CONTROL OF PANCREATIC IRG SECRETION IN VIVO. Gerich JE *Metabolism* 25: 1437-41, Nov 76 (Eng) [13] DL/77FEB292

STIMULATION OF PANCREATIC IMMUNOREACTIVE SOMATOSTATIN (IRS) RELEASE BY GLUCAGON [PROCEEDINGS]. Patton GS, Dobbs R, Orci L, Vale W, Unger RH *Metabolism* 25: 1499, Nov 76 (Eng) DL/77FEB308

HISTOLOGIC CHARACTERISTICS OF INSULINOMAS AND GASTRINOMAS. VALUE OF ARGYROPHILIA, METACHROMASIA, IMMUNOHISTOLOGY, AND ELECTRON MICROSCOPY FOR THE IDENTIFICATION OF GASTROINTESTINAL AND PANCREATIC ENDOCRINE CELLS AND THEIR TUMORS. Woodtli W, Hedinger C *Virchows Arch [Pathol Anat]* 371: 331-50, 7 Oct 76 (Eng) DL/77FEB425

PANCREATIC ACINAR CELL

THE POTENTIATING INFLUENCES OF INSULIN ON PANCREOZYMIN-INDUCED HYPERPOLARIZATION AND AMYLASE RELEASE IN THE PANCREATIC ACINAR CELL. Kanno T, Saito A *J Physiol (Lond)* 261: 505-21, Oct 76 (Eng) DL/77FEB213

PANCREATIC BETA CELL

PANCREATIC BETA CELL REPLICATION: EFFECTS OF HEXOSE SUGARS. King DL, Chick WL *Endocrinology* 99: 1003-9, OCT 76 (Eng) DL/77FEB68

PANCREATIC EXOCRINE FUNCTION

EFFECTS OF SOMATOSTATIN ON PANCREATIC EXOCRINE FUNCTION. INTERACTION WITH SECRETIN. Deschodt-Lanckman M, Robberecht P, Pector JC, Christophe J *Arch Int Physiol Biochem* 83: 960-1, Dec 75 (Eng) *DL/77FEB705

PANCREATIC GLUCAGON

THE CONTRIBUTION OF THE PANCREAS AND THE INTESTINE TO THE REGULATION OF LIPOLYSIS IN BIRDS. 2. IMPAIRED LIPOLYTIC ACTIVITY OF PANCREATIC GLUCAGON IN THE ABSENCE OF EITHER

THE PANCREAS OR THE INTESTINE IN THE CHICKEN. Krug E, Gross R, Mialhe P *Horm Metab Res* 8: 345-50, Sep 76 (Eng) DL/77FEB139

SEPARATE AUTOANTIBODIES TO HUMAN PANCREATIC GLUCAGON AND SOMATOSTATIN CELLS. Bottazzo GF, Lendrum R *Lancet* 2: 873-6, 23 Oct 76 (Eng) DL/77FEB244

PANCREATIC ISLET

PANCREATIC ISLET CELL TRANSPLANTATION AND DIABETES THERAPY. Monaco AP, Codish SD *Compr Ther* 2: 29-37, Nov 76 (Eng) DL/77FEB50

SOMATOSTATIN AND INSULIN RELEASE FROM ISOLATED RAT PANCREATIC ISLETS STIMULATED BY GLUCOSE. Schauder P, McIntosh C, Arends J, Arnold R, Frerichs H, Creutzfeldt W *FEBS Lett* 68: 225-7, 1 Oct 76 (Eng) DL/77FEB79

HYPERINSULINEMIA AND HYPERGLUCAGONEMIA FOLLOWING PANCREATIC ISLET TRANSPLANTATION IN DIABETIC RATS. Weber CJ, Hardy MA, Lerner RL, Felig P, Reemtsma K *Diabetes* 25: 944-8, Oct 76 (Eng) DL/77FEB101

[32P] ORTHOPHOSPHATE EFFLUX FROM PANCREATIC ISLETS: GRADED RESPONSE TO GLUCOSE STIMULATION. Pierce M, Bukowiecki L, Asplund K, Freinkel N *Horm Metab Res* 8: 358-61, Sep 76 (Eng) DL/77FEB142

INSULIN BIOSYNTHESIS IN PANCREATIC ISLETS ISOLATED FROM STARVED MICE. Andersson A *Horm Metab Res* 8: 403-4, Sep 76 (Eng) DL/77FEB147

CALCIUM AND STIMULUS-SECRETION COUPLING IN PANCREATIC ISLET CELLS. PP. 203-10. Matthews EK *In: Carafoli E, et al., ed. Calcium transport in contraction and secretion. Amsterdam, North-Holland, 1975. QV 276 161c 1975. (Eng) DL/77FEB178*

INSULIN RELEASE AND THE MOVEMENTS OF CALCIUM IN PANCREATIC ISLETS. PP. 211-26. Malaisse WJ, Herchuelz A, Levy J, Somers G, Devis G *In: Carafoli E, et al., ed. Calcium transport in contraction and secretion. Amsterdam, North-Holland, 1975. QV 276 161c 1975. (Eng) DL/77FEB179*

SOMATOSTATIN, A HORMONE OF THE ALPHA I-CELLS OF THE PANCREATIC ISLETS AND ITS INFLUENCE ON THE SECRETION OF INSULIN AND GLUCAGON. PP. 216-21. Efendic S, Hokfelt T, Luft R *In: Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB190*

PANCREATIC ISLET INJURY INDUCED BY METHYL MERCURIC CHLORIDE LIGHT AND ELECTRON MICROSCOPIC STUDIES. Shigenaga K *Kumamoto Med J* 29: 67-81, 30 Jun 76 (Eng) DL/77FEB232

IMMUNOREACTIVE GLUCAGONS IN PANCREATIC ISLETS. Tager HS, Markese J *Metabolism* 25: 1343-6, Nov 76 (Eng) DL/77FEB270

NEUROHUMORAL REGULATION OF THE PANCREATIC ISLET A AND B CELLS. Porte D Jr, Smith PH, Einsack JW *Metabolism* 25: 1453-6, Nov 76 (Eng) [21] DL/77FEB296

INSULIN RELEASE AND PHOSPHATE ION EFFLUX FROM RAT PANCREATIC ISLETS INDUCED BY L-LEUCINE AND ITS NON-METABOLIZABLE ANALOGUE, 2-AMINO-BICYCLO[2.2.1]HEPTANE-2-CARBOXYLIC ACID. Freinkel N, Younsi CE, Dawson RMC *Proc Natl Acad Sci USA* 73: 3403-7, Oct 76 (Eng) DL/77FEB358

HIGH CONCENTRATION OF GABA AND HIGH GLUTAMATE DECARBOXYLASE ACTIVITY IN RAT PANCREATIC ISLETS AND HUMAN INSULINOMA. Okada Y, Taniguchi H, Shimada C *Science* 194: 620-2, 5 Nov 76 (Eng) DL/77FEB398

PANCREATIC ISLET CELL CARCINOMA IN A DOG TREATED WITH STREPTOZOTOCIN. Meyer DJ *Am J Vet Res* 37: 1221-3, Oct 76 (Eng) DL/77FEB487

INOSINE-STIMULATED INSULIN RELEASE AND METABOLISM OF INOSINE IN ISOLATED MOUSE PANCREATIC ISLETS. Capito K, Hedeskov CJ *Biochem J* 158: 335-40, 15 Aug 76 (Eng) DL/77FEB505

PANCREATIC RESECTION

CHANGES IN CARBOHYDRATE METABOLISM AND ENDOCRINE FUNCTION OF REMNANT PANCREAS AFTER MAJOR PANCREATIC RESECTION. Yasugi H, Mizumoto R, Sakurai H, Honjo I *Am J Surg* 132: 577-80, Nov 76 (Eng) DL/77FEB477

PANCREATIC SECRETION

COMPARISON STUDIES OF NEUROTENSIN AND XENOPSIN UPON PANCREATIC SECRETION IN THE DOG [PROCEEDINGS]. Ishida T, Kawamura K, Goto A, Nishina Y, Takahara J *Metabolism* 25: 1467, Nov 76 (Eng) DL/77FEB301

[PANCREATIC SECRETION IN RATS. A COMPARATIVE STUDY OF BASAL AND STIMULATED SECRETIONS IN ACUTE AND CHRONIC FISTULA CONDITIONS (AUTHORS TRANSL)]. Chariot J, Roze C, de La Tour J, Souchard M, Vaillat C, Debray C *Pathol Biol (Paris)* 24: 457-61, Sep 76 (Fre) DL/77FEB336

PANCREATIC TISSUE

[XENOTRANSPLANTATION OF FETAL ENDOCRINE PANCREATIC TISSUE. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES]. Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 690-9, 1976 (Fre) DL/77FEB61

PANCREATITIS

TOTAL PANCREATECTOMY IN THE TREATMENT OF ACUTE NECROTISING AND HEMORRHAGIC PANCREATITIS. INDICATIONS-TECHNIQUE. Alexandre JH, Chambon H, Assan R *Langenbecks Arch Chir* 340: 231-47, 23 Apr 76 (Eng) DL/77FEB255

PANCREATITIS, ACUTE

ULTRASTRUCTURAL STUDIES OF HUMAN ACUTE PANCREATITIS. Taura S, Tsunoda T, Yoshino R, HARADA N, Akashi M *Gastroenterol Jpn* 10: 132-40, 1975 (Eng) DL/77FEB127

PANCREATITIS, CHRONIC

KINETICS OF INSULIN SECRETION IN CHRONIC PANCREATITIS AND MILD MATURITY ONSET DIABETES. (EVIDENCE FOR GUT HORMONE ACTION BEYOND GLUCORECEPTOR AND CYCLIC ADENOSINE MONOPHOSPHATE MEDIATED INSULIN RELEASE). Botha JL, Vinik AI, Blake KC, Jackson WP *Eur J Clin Invest* 6: 365-72, 10 Sep 76 (Eng) DL/77FEB72

PANCREOZYMIN

THE POTENTIATING INFLUENCES OF INSULIN ON PANCREOZYMIN-INDUCED HYPER-

Diabetes Literature—Keyword Index

PERINATAL MEDICINE

Saito T, Yoshida S, Matsuda A *Diabetologia* 12: 511-8, Oct 76 (Eng) DL/77FEB120

DISAPPEARANCE RATE OF ENDOGENOUS HUMAN C-PEPTIDE FROM BLOOD. Kuzuya T, Matsuda A *Diabetologia* 12: 519-21, Oct 76 (Eng) DL/77FEB121

HUMAN C-PEPTIDE. PART II: CLINICAL STUDIES. Beischer W, Heinze E, Keller L, Raptis S, Kerner W, Pfeiffer EF *Klin Wochenschr* 54: 717-25, 1 Aug 76 (Eng) DL/77FEB228

[RADIOIMMUNOLOGIC DETERMINATION OF STH, INSULIN, AND C-PEPTIDE. INDICATION, FUNCTIONAL TESTS, INTERPRETATION OF THE FINDINGS] Schroder KE, Raptis S, Beischer W *Med Welt* 27: 1720-5, 10 Sep 76 (Ger) DL/77FEB257

PEPTIDE FRACTION

THE LEVEL AND COMPOSITION OF SEROMUCOID AND NONDIALYSABLE SERUM SUGAR-PEPTIDE FRACTION COMPARED WITH THE ACTIVITY OF GALACTOSYL TRANSFERASE (EC 2.4.1.38) OF LIVER GOLGI MEMBRANES IN INSULIN-TREATED RATS. Guzdek A, Kordowiak A, Sarnacka-Keller M *Clin Chim Acta* 72: 393-9, 1 Nov 76 (Eng) DL/77FEB43

PEPTIDE, HYPOTHALAMIC

CONTROL OF ANTERIOR PITUITARY HORMONE SECRETION. HYPOTHALAMIC PEPTIDES AND THEIR INTERACTIONS. PP. 180-95. Grant G, Vale W, Brazeau P, Rivier J, Monahan M, Gilon C, Amoss M, Rivier C, Ling N, Burgess R, Guillemin R *In: Lederis K, Cooper KE, ed. Recent studies of hypothalamic function. Basel, Karger, 1974. WL 312 165r 1973.* (Eng) [39] *DL/77FEB588

PERHEXILINE

[ROLE OF PERHEXILINE MALEATE AND BETA BLOCKING AGENTS IN THE DEVELOPMENT OF SEVERE HYPOGLYCEMIA (LETTER)] Sudre Y, Becq-Giraudon B, Pouget-Abadie JF, Demange J, Boutaud PH *Nouv Presse Med* 5: 1999, 25 Sep 76 (Fre) DL/77FEB341

PERHEXILINE MALEATE

[ROLE OF PERHEXILINE MALEATE AND BETA BLOCKING AGENTS IN THE DEVELOPMENT OF SEVERE HYPOGLYCEMIA (LETTER)] Sudre Y, Becq-Giraudon B, Pouget-Abadie JF, Demange J, Boutaud PH *Nouv Presse Med* 5: 1999, 25 Sep 76 (Fre) DL/77FEB341

PERINATAL

ROLE OF GLUCAGON IN PERINATAL GLUCOSE HOMEOSTASIS. Sperling MA, Grajwer LA, Leake R, Fisher DA *Metabolism* 25: 1385-6, Nov 76 (Eng) DL/77FEB279

PERINATAL HYPOXIA

CEREBRAL LESIONS OF MATURE NEWBORN DUE TO PERINATAL HYPOXIA. II. MOTHERS DISEASES. Nyka WM *Z Geburtshilfe Perinatol* 180: 295-9, Aug 76 (Eng) DL/77FEB440

PERINATAL MEDICINE

[PERINATAL MEDICINE IS A COMMON INTEREST FOR MANY SPECIALTIES] Osterberg S *Lakartidningen* 73: 3444-6, 5 Oct 76 (Swe) DL/77FEB242

PARTICLE, INTRAMEMBRANE

FLUIDITY IN MITOCHONDRIAL MEMBRANES: THERMOTROPIC LATERAL TRANSLATIONAL MOTION OF INTRAMEMBRANE PARTICLES. Hochli M, Hackenbrock CR *Proc Natl Acad Sci USA* 73: 1636-40, May 76 (Eng) *DL/77FEB625

PARTUSISTEN

[BEHAVIOUR OF SERUM CONCENTRATIONS OF GLUCOSE, IMMUNOREACTIVE INSULIN AND POTASSIUM IONS IN NEWBORNS AFTER LONG TERM OR CRASH TREATMENTS WITH PARTUSISTEN OR PARTUSISTEN IN COMBINATION WITH ISOPTIN (AUTHORS TRANSL)] Weidinger H, Mohr D, Haller K, Hiltmann WD, Vogel M *Z Geburtshilfe Perinatol* 180: 258-65, Aug 76 (Ger) DL/77FEB439

PATHOGENESIS

DIABETIC RETINOPATHY: PATHOGENESIS AND PREVENTION. Kornzweig AL *Compr Ther* 2: 58-63, Nov 76 (Eng) DL/77FEB54

DIABETIC POLYNEUROPATHY: THE IMPORTANCE OF INSULIN DEFICIENCY, HYPERGLYCEMIA AND ALTERATIONS IN MYOINOSITOL METABOLISM IN ITS PATHOGENESIS. Winegrad AI, Greene DA *N Engl J Med* 295: 1416-21, 16 Dec 76 (Eng) DL/77FEB326

[PATHOGENESIS, PHYSIOPATHOLOGY, AND EPIDEMIOLOGY OF DIABETIC MICROANGIOPATHY] Hautecouverture M, Basdevant A, Slama G, Tchobroutsky G *Rev Prat* 26: 3085-93, 11 Oct 76 (Fre) DL/77FEB381

THE ROLE OF ABNORMALITIES IN NERVE METABOLISM IN THE PATHOGENESIS OF DIABETIC PERIPHERAL NEUROPATHY. Clements RS *Ala J Med Sci* 13: 399-404, Oct 76 (Eng) DL/77FEB478

[PATHOGENESIS OF SPONTANEOUS DIABETES MELLITUS IN THE CAT. II. ACIDOPHILIC ADENOMA OF THE PITUITARY GLAND AND DIABETES MELLITUS IN 2 CASES] Gemhardt C, Loppnow H *Berl Munch Tierarztl Wochenschr* 89: 336-40, 1 Sep 76 (Ger) DL/77FEB497

PATTERN, METABOLIC

EFFECT ON MYOCARDIAL METABOLIC PATTERN OF LOCAL COMPLETE AND INCOMPLETE ISCHEMIA. Isselhard W, Geppert E, Menge M, Lauterjung KL, Vogel W, Witte J, Heugel E *Recent Adv Stud Cardiac Struct Metab* 7: 231-6, 1975 (Eng) *DL/77FEB664

PEPTIC ULCER

PEPTIC ULCER IN DIABETES MELLITUS. Masuda H, Inoue S, Arakawa H, Koizumi K, Kubo N *Gastroenterol Jpn* 11: 1-4, 1976 (Eng) DL/77FEB128

PEPTIDE

STRUCTURAL STUDIES ON DES-PENTAPEPTIDE (B26-30)-INSULIN. III. STATE OF AGGREGATION, TYROSYL ENVIRONMENT, AND PEPTIDE BACKBONE CONFORMATION IN SOLUTION. Anonymous *Sci Sin* 19: 475-85, Jul-Aug 76 (Eng) DL/77FEB395

C-PEPTIDE

HUMAN C-PEPTIDE IMMUNOREACTIVITY (CPR) IN BLOOD AND URINE - EVALUATION OF A RADIOIMMUNOASSAY METHOD AND ITS CLINICAL APPLICATIONS. Kuzuya T,

POLARIZATION AND AMYLASE RELEASE IN THE PANCREATIC ACINAR CELL. Kanno T, Saito A *J Physiol (Lond)* 261: 505-21, Oct 76 (Eng) DL/77FEB213

PANMYELOPATHY

[DRUG-INDUCED PANMYELOPATHIES] Heimpe H, Kern P *Blut* 33: 1-10, Jul 76 (Ger) [35] DL/77FEB16

PANTOTHENIC ACID

EFFECT OF PANTOTHENIC ACID DEFICIENCY ON MICROSOMAL LIPIDS OF RAT LIVER. Mahboob S *Nutr Metab* 19: 91-5, 1975 (Eng) *DL/77FEB617

PAPILLARY MUSCLE

INFLUENCE OF FREE FATTY ACIDS ON MYOCARDIAL MECHANICS AND OXYGEN CONSUMPTION IN RAT PAPILLARY MUSCLES AND PERFUSED HEARTS, UNDER OXYGENATED AND HYPOXIC CONDITIONS. Henderson AH, Sonnenblick EH *Recent Adv Stud Cardiac Struct Metab* 1: 147-62, 1972 (Eng) *DL/77FEB636

THE ROLE OF LINOLEIC ACID IN HYPOXIA-INDUCED CHANGES OF THE ACTION POTENTIALS AND THE FORCE OF CONTRACTION OF ISOLATED PAPILLARY MUSCLES OF THE GUINEA PIG. Ravens KG, Ravens U *Recent Adv Stud Cardiac Struct Metab* 7: 289-95, 1975 (Eng) *DL/77FEB671

PARALYSIS

THYROTOXIC PERIODIC PARALYSIS: A PECULIAR CASE WITH UNUSUAL DYSTONIC BEHAVIOR AND VARIABLE RELATIONS OF PARALYSIS TO SERUM POTASSIUM LEVELS. Kusakabe T, Yoshida M, Nishikawa M *J Clin Endocrinol Metab* 43: 730-40, Oct 76 (Eng) DL/77FEB167

PARENTERAL

[CURRENT STATUS OF THE PROBLEM OF SECURING THE ENERGY REQUIREMENTS OF A PATIENT BY THE PARENTERAL ROUTE] Kremer IuN, Vitolina SP *Vopr Pitn* 7: 16, Sep-Oct 76 (Rus) [101] DL/77FEB427

PARENTERAL NUTRITION

INSULIN LOSS IN PARENTERAL NUTRITION SYSTEMS. Oh TE, Dyer H, Wall BP, Hall RA, Jellett LB *Anaesth Intensive Care* 4: 342-6, Nov 76 (Eng) DL/77FEB484

PARODONTOPATHY

[PARODONTOPATHY REVEALING INSULIN-DEPENDANT DIABETES (LETTER)] Pinget M, Dornier M, Brocard JM, Comte F, Farge R, Roth JJ *Nouv Presse Med* 5: 1995, 25 Sep 76 (Fre) DL/77FEB340

PARS PLANA VITRECTOMY

ELEVATION OF INTRAOCULAR PRESSURE AFTER PARS PLANA VITRECTOMY. Weinberg RS, Peyman GA, Huamonte FU *Albrecht von Graefes Arch Klin Ophthalmol* 200: 157-61, 30 Aug 76 (Eng) DL/77FEB479

PARTIAL PURIFICATION

PARTIAL PURIFICATION OF THE NADPH-DEPENDENT ALDEHYDE REDUCTASE FROM BOVINE CARDIAC MUSCLE. Kawalek JC, Gilbertson JR *Arch Biochem Biophys* 173: 649-57, Apr 76 (Eng) *DL/77FEB703

Diabetes Literature—Keyword Index

PERINATAL MORBIDITY

PERINATAL MORBIDITY

[OBSTETRICAL BRACHIAL PLEXUS INJURIES. A STUDY ON PERINATAL MORBIDITY] Vrouwenarts PE, Arts JP, Kinderneurolog PF *Ned Tijdschr Geneesk* 120: 1666-72, 2 Oct 76 (Dut) DL/77FEB329

PERIPHERAL BLOOD

[RELATIONSHIP BETWEEN HORMONE CONCENTRATION IN PERIPHERAL BLOOD IN HYPERTENSION, ARTERIOSCLEROSIS AND OBESITY] Kokina LP, Lyskova MN, Tkacheva GA, Gabuniia RI, Syzgantseva LM *Ter Arkh* 48: 81-4, 1976 (Rus) DL/77FEB410

PERITONITIS

[STRUCTURAL AND FUNCTIONAL CHANGES IN THE SMALL INTESTINE IN PERITONITIS] Popov VA *Patol Fiziol Eksp Ter* 32-7, Jan-Feb 76 (Rus) *DL/77FEB619

PH

POLYMERIZATION PATTERN OF INSULIN AT PH 7.0. Jeffrey PD, Milthorpe BK, Nichol LW *Biochemistry* 15: 4660-5, 19 Oct 76 (Eng) DL/77FEB10

PHAGOCYTE

INHIBITORY ACTION OF D-GALACTOSE ON PHAGOCYTE METABOLISM AND FUNCTION. Litchfield WJ, Wells WW *Infect Immun* 13: 728-34, Mar 76 (Eng) *DL/77FEB564

PHAGOCYTOSIS

STUDIES ON UREA SYNTHESIS, INSULIN DEGRADATION AND PHAGOCYTOSIS BY ISOLATED RAT KUPFFER CELLS. Wagle SR, Hofmann F, Decker K *Biochem Biophys Res Commun* 72: 448-55, 20 Sep 76 (Eng) DL/77FEB509

[EFFECTS OF HISTONES ON PHAGOCYTOSIS AND PHAGOCYTIC METABOLISM] Agbaba O *Rev Can Biol* 35: 25-31, Mar 76 (Fre) *DL/77FEB632

PHARMACOKINETIC

PHARMACOKINETIC ANALYSIS OF THE INTERACTION BETWEEN DICUMAROL AND TOLBUTAMIDE IN MAN. Jahnchen E, Meinertz T, Gilfrich HJ, Groth U *Eur J Clin Pharmacol* 10: 349-56, 30 Sep 76 (Eng) DL/77FEB74

[PHARMACOKINETIC OF GLIPENTIDE (UR-661) BY IV. ADMINISTRATION ON HEALTHY AND DIABETIC VOLUNTEERS (AUTHORS TRANSL)] Rimbau Barreras V, Uriach Marsal J, Pou Turrello JM *Arch Pharmacol Toxicol* 2: 115-22, Aug 76 (Spa) DL/77FEB491

PHARMACOLOGY

PHARMACOLOGY OF LYSERGIC ACID DIETHYLAMIDE (LSD) IN MAN. PP. 173-83. Hollister LE *In: Radouco-Thomas S, ed. Pharmacologie, toxicologie, et abus des psychotomimetiques (hallucinogenes). Quebec, Les Presses de l'Universite Laval, 1974. QV 109 L392p 1973. (Eng) [25] *DL/77FEB592*

PHENFORMIN

CAN PHENFORMIN-INDUCED LACTIC ACIDOSIS BE PREVENTED Gale EA, Tattersall RB *Br Med J* 2: 972-5, 23 Oct 76 (Eng) DL/77FEB32

INTESTINAL ABSORPTION CHARACTERISTICS OF BUFORMIN AND PHENFORMIN IN RATS. Kojima S, Tanaka R, Hamada C *Chem Pharm Bull (Tokyo)* 24: 1555-60, Jul 76 (Eng) DL/77FEB42

EFFECT OF PHENFORMIN AND ETHYLOESTRENOL ON BLOOD FIBRINOLYTIC ACTIVITY ON RABBITS MAINTAINED ON HIGH CHOLESTEROL DIET. Sharma KK, Chowdhury NK, Sharma AL *Indian J Med Res* 64: 915-22, Jun 76 (Eng) DL/77FEB149

PHENYLALANINE

[EFFECT OF ADRENALINE, NORADRENALINE, DOPAMINE, DOPA AND PHENYLALANINE ON LIPID PEROXIDATION IN LIVER MITOCHONDRIA MEMBRANES] Sergeev PV, Seifulla RD, Dunaev VG, Rudnev IuN *Biull Eksp Biol Med* 80: 25-8, Dec 75 (Rus) *DL/77FEB526

PHEOCHROMOCYTOMA

[DIABETES MELLITUS IN PHEOCHROMOCYTOMA] Sudre Y, Becq-Giraudon B, Pouget-Abadie JF, Boudaud P, Barbier J, Meriel P, Gasquet C, Babin P *Sem Hop Paris* 52: 1893-902, 16 OCT 76 (Fre) DL/77FEB399

PHLORETIN

INTERACTION BETWEEN PHLORETIN AND THE RED BLOOD CELL MEMBRANE. Jennings ML, Solomon AK *J Gen Physiol* 67: 381-97, Apr 76 (Eng) *DL/77FEB598

PHOSPHATASE

INSULIN STIMULATION OF HEART GLYCOGEN SYNTHASE D PHOSPHATASE (PROTEIN PHOSPHATASE). Nuttall FQ, Gannon MC, Corbett VA, Wheeler MP *J Biol Chem* 251: 6724-9, 10 Nov 76 (Eng) DL/77FEB160

PHOSPHATE, HEXOSE

THE HEXOSE PHOSPHATE TRANSPORT SYSTEM OF ESCHERICHIA COLI. Dietz GW Jr *Adv Enzymol* 44: 237-59, 1976 (Eng) *DL/77FEB692

PHOSPHATE, HIGH ENERGY

MYOCARDIAL HIGH ENERGY PHOSPHATES IN EXPERIMENTAL THYROTOXICOSIS IN GUINEA PIGS. Jahrmarker H, Rackwitz R, Otter HP *Recent Adv Stud Cardiac Struct Metab* 7: 199-207, 1975 (Eng) *DL/77FEB659

PHOSPHATE ION

INSULIN RELEASE AND PHOSPHATE ION EFFLUX FROM RAT PANCREATIC ISLETS INDUCED BY L-LEUCINE AND ITS NON-METABOLIZABLE ANALOGUE, 2-AMINO-BICYCLO[2.2.1]HEPTANE-2-CARBOXYLIC ACID. Freinkel N, Younsi CE, Dawson RMC *Proc Natl Acad Sci USA* 73: 3403-7, Oct 76 (Eng) DL/77FEB358

PHOSPHATE, ORGANIC

THE EFFECT OF HYPERTHERMIA UPON OXYGEN CONSUMPTION AND UPON ORGANIC PHOSPHATES, GLYCOLYTIC METABOLITES, CITRIC AND CYCLE INTERMEDIATES AND ASSOCIATED AMINO ACIDS IN RAT CEREBRAL CORTICES. Carlsson C, Hagerdal M, Siesjö BK *J Neurochem* 26: 1001-6, May 76 (Eng) *DL/77FEB599

PHOSPHOLIPASE A2

COMPARATIVE STUDIES OF LIPASE AND PHOSPHOLIPASE A2 ACTING ON SUBSTRATE MONOLAYERS. Verger R, Rietsch I, Van Dam-Mieras MC, de Haas GH *J Biol Chem* 251: 3128-33, 25 May 76 (Eng) *DL/77FEB574

PHOSPHOLIPID

[REGULATION OF MICROSOMAL ENZYME ACTIVITY BY PHOSPHOLIPIDS IN VIVO] Burlakova EB, Dzhalibova MI, Molochkina EM *Dokl Akad Nauk SSSR* 227: 991-4, 1976 (Rus) *DL/77FEB547

EXCHANGE OF PHOSPHOLIPIDS BETWEEN MITOCHONDRIA AND ROUGH OR SMOOTH MICROSOMES IN VITRO. Taniguchi M, Sakagami T *J Biochem (Tokyo)* 77: 1245-8, Jun 75 (Eng) *DL/77FEB567

THE INCORPORATION OF RADIOACTIVE FATTY ACIDS AND OF RADIOACTIVE DERIVATIVES OF GLUCOSE INTO THE PHOSPHOLIPIDS OF SUBSYNAPTOSOMAL FRACTIONS OF CEREBRAL CORTEX. Baker R, Dowdall MJ, Whittaker VP *Biochem J* 154: 65-75, 15 Jan 76 (Eng) *DL/77FEB715

PHOSPHOLIPID, MEMBRANE

EVIDENCE FOR A DIRECT EFFECT ON FATTY ACID SYNTHESIS IN RELA GENE CONTROL OF MEMBRANE PHOSPHOLIPID SYNTHESIS. Nunn WD, Cronan JE Jr *J Mol Biol* 102: 167-72, 25 Mar 76 (Eng) *DL/77FEB602

PHOSPHOLIPID METABOLISM

EFFECTS OF DENSITY-DEPENDENT INHIBITION OF GROWTH ON PHOSPHOLIPID METABOLISM IN MONOLAYER CULTURES OF ANIMAL CELLS. Gallaher WR, Blough HA *Arch Biochem Biophys* 173: 738-46, Apr 76 (Eng) *DL/77FEB704

PHOSPHOROUS-32

[32P] ORTHOPHOSPHATE EFFLUX FROM PANCREATIC ISLETS: GRADED RESPONSE TO GLUCOSE STIMULATION. Pierce M, Bukowiecki L, Asplund K, Freinkel N *Horm Metab Res* 8: 358-61, Sep 76 (Eng) DL/77FEB142

PHOSPHORYLATION

REGULATION BY LIPOLYTIC AND ANTILIPOLYTIC COMPOUNDS OF THE PHOSPHORYLATION OF SPECIFIC PROTEINS IN ISOLATED INTACT FAT CELLS. Forn J, Greengard P *Arch Biochem Biophys* 176: 721-33, Oct 76 (Eng) DL/77FEB488

INFLUENCE OF ELECTROSTATIC SURFACE POTENTIAL ON MITOCHONDRIAL ADP-PHOSPHORYLATION. Schafer G, Rowohl-Quisthoudt G *FEBS Lett* 59: 48-51, 1 Nov 75 (Eng) *DL/77FEB556

PHOTOCOAGULATION

DIABETIC RETINOPATHY STUDY. PRELIMINARY RESULTS FROM 215 PATIENTS TREATED UNICLOCALLY WITH PHOTOCOAGULATION. Koerner F, Schlegel D, Koerner U *Albrecht von Graefes Arch Klin Ophthalmol* 200: 99-111, 30 Aug 76 (Eng) DL/77FEB480

PHYSICAL ACTIVITY

PHYSICAL ACTIVITY AND HORMONES. Adlercreutz H, Harkonen M, Kuopasalmi K, Kosunen K, Naveri H, Rehnun S *Adv Cardiol* 18: 144-57, 1976 (Eng) DL/77FEB461

Diabetes Literature—Keyword Index

PHYSICAL EXERCISE

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL AND GROWTH HORMONE LEVELS IN YOUNG WEIGHT LIFTERS] Lukaszewska J, Biczowa B, Bobilewicz D, Wilk M, Obuchowicz-Fidelus B *Endokrynol Pol* 27: 149-57, Mar-Apr 76 (Pol) *DL/77FEB549

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL, TESTOSTERONE AND GROWTH HORMONE LEVELS IN WEIGHT LIFTERS] Skierska E, Ustupka J, Biczowa B, Lukaszewska J *Endokrynol Pol* 27: 159-65, Mar-Apr 76 (Pol) *DL/77FEB550

RESPONSES OF THE HEART MITOCHONDRIA TO CHRONIC CARDIAC OVERLOAD AND PHYSICAL EXERCISE. Wollenberger A *Recent Adv Stud Cardiac Struct Metab* 1: 213-22, 1972 (Eng) *DL/77FEB640

PHYSICAL TRAINING

EFFECTS OF EXERCISE AND PHYSICAL TRAINING ON CARBOHYDRATE AND LIPID METABOLISM IN MAN. Bjontorp P *Adv Cardiol* 18: 158-66, 1976 (Eng) DL/77FEB462

PHYSIOPATHOLOGY

[PATHOGENESIS, PHYSIOPATHOLOGY, AND EPIDEMIOLOGY OF DIABETIC MICROANGIOPATHY] Hauteceuvre M, Basdevant A, Slama G, Tchobroutsky G *Rev Prat* 26: 3085-93, 11 Oct 76 (Fre) DL/77FEB381

PILOT

DIABETIC FOOT CARE EDUCATION IN A PODIATRY CLINIC: A PILOT STUDY. Scarlet JJ, Conner JC, Monastersky C *J Am Podiatry Assoc* 66: 798-800, Oct 76 (Eng) DL/77FEB173

PINEAL HYPERPLASIA

PREMATURE ERUPTION AND MACRODONITIA ASSOCIATED WITH INSULIN RESISTANT DIABETES AND PINEAL HYPERPLASIA. REPORT OF TWO CASES. Holmes J, Tanner MS *Br Dent J* 141: 280-4, 2 Nov 76 (Eng) DL/77FEB4

PITUITARY

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltzer C, Leclercq-Meyer V, Mialhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77FEB86

IN VIVO AND IN VITRO ACTIONS OF SYNTHETIC PART SEQUENCES OF HUMAN PITUITARY GROWTH HORMONE. PP. 41-9. Bornstein J *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB183*

EFFECTS OF GROWTH HORMONE RELEASE-INHIBITING HORMONE AND BROMOCRYPTINE (CB 154) IN STATES OF ABNORMAL PITUITARY-ADRENAL FUNCTION. Benker G, Hackenberg K, Hamburger B, Reinwein D *Clin Endocrinol (Oxf)* 5: 187-90, Mar 76 (Eng) *DL/77FEB542

HUMAN PITUITARY GROWTH HORMONE: RESTORATION OF FULL BIOLOGICAL ACTIVITY BY NONCOVALENT INTERACTION OF TWO FRAGMENTS OF THE HORMONE. Li CH, Bewley TA *Proc Natl Acad Sci USA* 73: 1476-9, May 76 (Eng) *DL/77FEB623

PITUITARY, ANTERIOR

LETTER: EFFECT OF ALCOHOL ON ANTERIOR-PITUITARY SECRETION OF TROPIC

HORMONES. Ylikahri RH, Huttunen MO, Harkonen M *Lancet* 1: 1353, 19 Jun 76 (Eng) *DL/77FEB608

KINETICS OF PROTEIN SYNTHESIS AND RELEASE IN THE STH-CELL OF THE MOUSE ANTERIOR PITUITARY AS REVEALED BY ELECTRON MICROSCOPIC AUTORADIOGRAPHY OF 3H-AMINO ACIDS. Hiura M, Komatsu M, Fujita H *Arch Histol Jpn* 38: 347-57, Feb 76 (Eng) *DL/77FEB709

PITUITARY CELL

MULTIPOTENT LIPOTROPIC HORMONES. IN SEARCH OF A PITUITARY CELL PRODUCING MULTIPOTENT LPH. Furth J, Chretien M, Lis M, Belanger A, Moy P, Grauman J *Arch Pathol* 99: 572-81, Nov 75 (Eng) *DL/77FEB710

PITUITARY FUNCTION

A STUDY OF PITUITARY FUNCTION IN PATIENTS WITH IDIOPATHIC HEMOCHROMATOSIS. Walsh CH, Wright AD, Williams JW, Holder G *J Clin Endocrinol Metab* 43: 866-72, Oct 76 (Eng) DL/77FEB169

PITUITARY GLAND

[PATHOGENESIS OF SPONTANEOUS DIABETES MELLITUS IN THE CAT. II. ACIDOPHILIC ADENOMA OF THE PITUITARY GLAND AND DIABETES MELLITUS IN 2 CASES] Gemhardt C, Loppnow H *Berl Munch Tierarztl Wochenschr* 89: 336-40, 1 Sep 76 (Ger) DL/77FEB497

PITUITARY HORMONE

CONTROL OF ANTERIOR PITUITARY HORMONE SECRETION. HYPOTHALAMIC PEPTIDES AND THEIR INTERACTIONS. PP. 180-95. Grant G, Vale W, Brazeau P, Rivier J, Monahan M, Gilon C, Amoss M, Rivier C, Ling N, Burgess R, Guillemin R *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function. Basel, Karger, 1974. WL 312 165r 1973. (Eng) [39] *DL/77FEB588*

PLASMA

PLASMA CONCENTRATIONS OF UNCONJUGATED ESTRONE, ESTRADIOL-17BETA AND ESTRIOL, AND HCS THROUGHOUT PREGNANCY IN DIABETICS AND GESTATIONAL DIABETICS. De Hertogh R, Thomas K, Hoet JJ, Vanderheyden I *Diabetologia* 12: 455-61, Oct 76 (Eng) DL/77FEB114

RADIORECEPTOR ASSAY OF PLASMA NSILAS IN MAN: BASAL AND STIMULATED LEVELS IN NORMAL AND PATHOLOGIC STATES. PP. 127-40. Megyesi K, Kahn CR, Roth J, Gordon P, Neville DM Jr *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB187*

HETEROGENEITY OF PLASMA IMMUNOREACTIVE GLUCAGON. Valverde I, Villanueva ML *Metabolism* 25: 1393-5, Nov 76 (Eng) DL/77FEB281

THE EFFECTS OF ACUTE AND CHRONIC INSULIN ADMINISTRATION ON PLASMA IRL LEVELS IN HUMAN DIABETES. Raskin P, Aydin I, Unger RH *Metabolism* 25: 1531-3, Nov 76 (Eng) DL/77FEB317

INFLUENCE OF FAT INGESTION ON LECITHIN:CHOLESTEROL ACYL TRANSFER RATE IN PLASMA OF NORMAL PERSONS. Wallentin L, Vikrot O *Scand J Clin Lab Invest* 36: 473-9, Sep 76 (Eng) DL/77FEB392

PLASMA GROWTH HORMONE

PLASMA LEVELS OF FRACTIONATED ESTROGENS AND PITUITARY HORMONES IN ENDOMETRIAL CARCINOMA. Benjamin F, Deutsch S *Am J Obstet Gynecol* 126: 638-47, 15 Nov 76 (Eng) DL/77FEB470

THE EFFECT OF ANTILIPOLYTIC AGENTS ON CYCLIC AMP, FREE FATTY ACID AND TOTAL CATECHOLAMINE CONCENTRATIONS IN PLASMA. Strange RC, Rowe MJ, Mjos OD, Oliver MF *Acta Med Scand* 199: 421-4, 1976 (Eng) *DL/77FEB691

PLASMA, BLOOD

[INFLUENCE OF ANGIOTENSIN II ON THE FATTY ACID LEVEL IN THE TRIACYLGLYCERIDES OF THE BLOOD PLASMA OF RABBITS] Mikhailov ML *Patol Fiziol Eksp Ter* 75-7, May-Jun 75 (Rus) *DL/77FEB620

PLASMA CORTISOL

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL AND GROWTH HORMONE LEVELS IN YOUNG WEIGHT LIFTERS] Lukaszewska J, Biczowa B, Bobilewicz D, Wilk M, Obuchowicz-Fidelus B *Endokrynol Pol* 27: 149-57, Mar-Apr 76 (Pol) *DL/77FEB549

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL, TESTOSTERONE AND GROWTH HORMONE LEVELS IN WEIGHT LIFTERS] Skierska E, Ustupka J, Biczowa B, Lukaszewska J *Endokrynol Pol* 27: 159-65, Mar-Apr 76 (Pol) *DL/77FEB550

PLASMA GASTRIN

RAT GASTRIC MUCOSAL OXYGEN TENSION, ULCER INDEX, PLASMA GASTRIN AND GLUCAGON FOLLOWING RESTRAINT STRESS. INFLUENCE OF VAGOTOMY, SPALANCHNICOTOMY AND EXOGENOUS SECRETIN. Schwille PO, Schellerer W, Steiner H, Reitzenstein M *Res Exp Med (Berl)* 167: 149-58, 15 May 76 (Eng) DL/77FEB375

PLASMA GLUCAGON

EFFECTS OF ACUTE INSULIN WITHDRAWAL AND ADMINISTRATION ON PLASMA GLUCAGON RESPONSES TO INTRAVENOUS ARGININE IN INSULIN-DEPENDENT DIABETIC SUBJECTS. Gerich JE, Lorenzi M, Tsalikian E, Bohannon NV, Schneider V, Karam JH, Forsham PH *Diabetes* 25: 955-60, Oct 76 (Eng) DL/77FEB103

HETEROGENEITY OF PLASMA GLUCAGON IN MAN. Jaspán JB, Kuku SF, Locker JD, Huen A, Emmanouel DS, Katz AI, Rubenstein AH *Metabolism* 25: 1397-401, Nov 76 (Eng) DL/77FEB282

PLASMA GLUCAGON IN DIABETES RESULTING FROM TOTAL PANCREATECTOMY [PROCEEDINGS]. Bloom SR, Barnes AJ, Bryant MG, Alberti KG *Metabolism* 25: 1481-2, Nov 76 (Eng) DL/77FEB304

PLASMA GLUCOSE

PROPRANOLOL EFFECT ON PLASMA GLUCOSE, FREE FATTY ACID, INSULIN, AND GROWTH HORMONE IN GRAVES DISEASE. Ortigosa JL, Mendoza F, Argote RM, Garcia G, Cervantes C, Parra A *Metabolism* 25: 1201-7, Nov 76 (Eng) DL/77FEB260

PLASMA GROWTH HORMONE

STUDIES ON THE NATURE OF PLASMA GROWTH HORMONE. PP. 75-83. Ellis S, Grindland RE, Reilly TJ, Yang SH *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB191*

PLASMA INSULIN

PLASMA INSULIN

STUDIES ON EXPERIMENTAL HYPOTROPHY IN THE RAT. IIL PLASMA INSULIN AND GLUCAGON. Girard JR, Chanez C, Kervran A, Tordet-Cardoit C, Assan R *Biol Neonate* 29: 262-6, 1976 (Eng) DL/77FEB13

IMPAIRED PLASMA INSULIN RESPONSE TO ARGININE IN HYPERTHYROIDISM. IMPORTANT ROLE OF THE RISE OF BLOOD GLUCOSE IN THE SECOND PHASE OF INSULIN RELEASE INDUCED BY ARGININE. Imura H, Seino Y, Ikeda M, Taminato T, Miyamoto Y *Diabetes* 25: 961-8, Oct 76 (Eng) DL/77FEB104

TIME COURSE OF GLUCOSE-INDUCED INCREASE IN PLASMA INSULIN IN THE RAT FOETUS IN UTERO. Dervan A, Girard JR *J Endocrinol* 70: 519-20, Sep 76 (Eng) DL/77FEB199

MATERNAL PROTEIN MALNUTRITION DURING GESTATION ALONE AND ITS EFFECTS ON PLASMA INSULIN LEVELS OF THE PREGNANT PIG, ITS FETUSES AND THE DEVELOPING OFFSPRING. Atinmo T, Baldijao C, Pond WG, Barnes RH *J Nutr* 106: 1647-53, Nov 76 (Eng) DL/77FEB203

PLASMA INSULIN LEVELS IN WEANED PIGS FED PROTEIN OR ENERGY RESTRICTED DIETS. Atinmo T, Baldijao C, Pond WG, Barnes RH *J Nutr* 106: 1654-8, Nov 76 (Eng) DL/77FEB204

NEUROTENSIN AND SUBSTANCE-P: EFFECTS ON PLASMA INSULIN AND GLUCAGON LEVELS. Brown M, Villarreal J, Vale W *Metabolism* 25: 1459-61, Nov 76 (Eng) DL/77FEB298

PLASMA LIPOPROTEIN

THE METABOLIC FATE OF PLASMA LIPOPROTEINS IN NORMAL SUBJECTS AND IN PATIENTS WITH INSULIN RESISTANCE AND ENDOGENOUS HYPERTRIGLYCERIDAEMIA. Kissebah AH, Alfarsi S, Adams PW, Wynn V *Diabetologia* 12: 501-9, Oct 76 (Eng) DL/77FEB119

PLASMA MEMBRANE

HORMONE REGULATED REDOX FUNCTION IN PLASMA MEMBRANES. Low H, Crane FL *FEBS Lett* 68: 157-9, 1 Oct 76 (Eng) DL/77FEB77

CONCAVALIN A STIMULATION MODIFIES THE LIPID AND PROTEIN STRUCTURE OF RABBIT THYMOCYTE PLASMA MEMBRANES. A LASER RAMAN STUDY. Schmidt-Ullrich R, Verma SP, Wallach DF *Biochim Biophys Acta* 426: 477-88, 19 Mar 76 (Eng) *DL/77FEB519

CHARACTERIZATION OF (3H)CYTOCHALASIN B BINDING TO THE FAT CELL PLASMA MEMBRANE. Czech MP *J Biol Chem* 251: 2905-10, 25 May 76 (Eng) *DL/77FEB570

INFLUENCE ON ADIPOCYTE PLASMA MEMBRANE BOUND PROTEIN KINASE BY FEEDBACK REGULATOR. Ho R, Russell T, Asakawa T, Snyder RP *J Cyclic Nucleotide Res* 1: 349-58, 1975 (Eng) *DL/77FEB580

A RAPID IMMUNOLOGICAL PROCEDURE FOR THE ISOLATION OF HORMONALLY SENSITIVE RAT FAT-CELL PLASMA MEMBRANE. Luzzio JP, Newby AC, Hales CN *Biochem J* 154: 11-21, 15 Jan 76 (Eng) *DL/77FEB714

PLASMA RENIN

PLASMA RENIN ACTIVITY IN DIABETIC AUTONOMIC NEUROPATHY. Campbell IW,

Ewing DJ, Anderton JL, Thompson JH, Horn DB, Clarke BF *Eur J Clin Invest* 6: 381-5, 10 Sep 76 (Eng) DL/77FEB73

PLASMA RENIN ACTIVITY AND HYPERTENSION IN DIABETES MELLITUS. Christlieb AR, Kaldany A, Delia JA *Diabetes* 25: 969-74, Oct 76 (Eng) DL/77FEB105

PLASMA SOMATOMEDIN

PLASMA SOMATOMEDIN. CLINICAL OBSERVATIONS. PP. 271-85. Van den Brande JL *In* Pecile A, Muller EE, ed. *Growth hormone and related peptides*. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) [81] DL/77FEB186

PLATELET

[BLOOD CLOTTING AND FIBRINOLYTIC ACTIVITY AND PLATELET CHANGES IN CHRONIC PERIPHERAL ARTERIAL INSUFFICIENCY] Kaniak J, Kotschy M, Kurzawska M, Włodarczyk J, Prastowski W *Pol Tyg Lek* 31: 1757-60, 11 Oct 76 (Pol) DL/77FEB350

PLATELET AGGREGATION

ON THE MEASUREMENT OF SPONTANEOUS PLATELET AGGREGATION. THE PLATELET AGGREGATION TEST III. METHODS AND FIRST CLINICAL RESULTS. Breddin K, Grun H, Krzywanek HJ, Schremmer WP *Thromb Haemostas* 35: 669-91, 30 Jun 76 (Eng) DL/77FEB412

PODIATRY CLINIC

DIABETIC FOOT CARE EDUCATION IN A PODIATRY CLINIC: A PILOT STUDY. Scarlet JJ, Conner JC, Monastersky C *J Am Podiatry Assoc* 66: 798-800, Oct 76 (Eng) DL/77FEB173

POLARIZING INFUSIONS

INFLUENCE OF POLARIZING INFUSIONS ON ANTIARRHYTHMIC EFFECTS OF BETA-BLOCKERS. Rossi P, Araldi D, Cernigliaro C, D'Alerio M, Carcano G *G Ital Cardiol* 6: 620-7, 1976 (Eng) DL/77FEB126

POLARIZING SOLUTION

[CLINICAL UNSPECIFICITY AND METABOLIC SPECIFICITY OF THE POLARIZING SOLUTION (AUTHORS TRANSL.)] Sodi-Pallares D *Folia Clin Int (Barc)* 26: 7-13, Jan 76 (Spa) [83] DL/77FEB81

POLYAMINE

THE EFFECTS OF POLYAMINES ON CARDIAC PROTEIN BIOSYNTHESIS. Gibson K, Harris P *Recent Adv Stud Cardiac Struct Metab* 7: 71-6, 1975 (Eng) *DL/77FEB678

POLYCARDIOGRAPHY

[POLYCARDIOGRAPHIC EVALUATION OF LEFT VENTRICULAR CONTRACTION FOLLOWING GLUCAGON ADMINISTRATION TO PATIENTS WITH CHRONIC CIRCULATORY FAILURE] Szczeklik J, Dubiel J, Pyzik Z *Pol Tyg Lek* 31: 1709-12, 4 Oct 76 (Pol) DL/77FEB347

POLYMERIZATION

POLYMERIZATION PATTERN OF INSULIN AT PH 7.0. Jeffrey PD, Milthorpe BK, Nichol LW *Biochemistry* 15: 4660-5, 19 Oct 76 (Eng) DL/77FEB10

POLYNEUROPATHY, DIABETIC

DIABETIC POLYNEUROPATHY: THE IMPORTANCE OF INSULIN DEFICIENCY, HYPERGLYCEMIA AND ALTERATIONS IN MYOINOSITOL METABOLISM IN ITS PATHOGENESIS. Winegrad AI, Greene DA *N Engl J Med* 295: 1416-21, 16 Dec 76 (Eng) DL/77FEB326

POLYOL

GAS CHROMATOGRAPHIC STUDY OF FREE POLYOLS AND ALDOSES IN CATARACTOUS HUMAN LENS TISSUE. Pfaffenberger CD, Szafrank J, Horning EC *J Chromatogr* 126: 535-45, 3 Nov 76 (Eng) DL/77FEB164

POLYPEPTIDE

A POLYPEPTIDE (AP-A) FROM SEA ANEMONE (ANTHOPEURA XANTHOGRAMMICA) WITH POTENT POSITIVE INOTROPIC ACTION. Shibata S, Norton TR, Izumi T, Matsuo T, Katsuki S *J Pharmacol Exp Ther* 199: 298-309, Nov 76 (Eng) DL/77FEB210

DIFFERENTIAL SYNTHESIS OF CRYSTALLINE AND NONCRYSTALLINE POLYPEPTIDES DURING LENS FIBER CELL DIFFERENTIATION IN VITRO. Beebe DC, Piatigorsky EP *Eye Res* 22: 237-49, Mar 76 (Eng) *DL/77FEB552

[ENDOCRINE CELLS PRODUCING POLYPEPTIDES AND BIOGENIC AMINES] Bussolati G *Riv Istochim Norm Patol* 18: 95-118, 1974 (Ita) *DL/77FEB679

POLYPEPTIDE, GASTRIC INHIBITORY

GASTRIC INHIBITORY POLYPEPTIDE (GIP) IN MATURITY-ONSET DIABETES MELLITUS. Crockett SE, Mazzaferri EL, Cataland S *Diabetes* 25: 931-5, Oct 76 (Eng) DL/77FEB899

INHIBITION OF ACTIONS OF GLUCAGON IN ADIPOCYTES BY GASTRIC INHIBITORY POLYPEPTIDE. Dupre J, Greenidge N, McDonald TJ, Ross SA, Rubinstein D *Metabolism* 25: 1197-9, Nov 76 (Eng) DL/77FEB259

POSTMATURITY

POSTMATURITY IN THE RAT: IMPAIRMENT OF INSULIN, GLUCAGON, AND GLYCOGEN STORES. Portha B, Rosselin G, Picon L *Diabetologia* 12: 429-36, Oct 76 (Eng) DL/77FEB110

POSTNATAL

[EARLY POSTNATAL OVERFEEDING AS AN ETIOPATHOGENETIC FACTOR IN ADULT OBESITY] Dörner G, Hagen N, Witthuhn W *Acta Biol Med Ger* 35: 799-803, 1976 (Ger) DL/77FEB453

ERICIC ACID METABOLISM BY CULTURED BEATING HEART CELLS OF THE POSTNATAL RAT. Pinson A, Padieu P *Recent Adv Stud Cardiac Struct Metab* 7: 29-40, 1975 (Eng) *DL/77FEB672

POTASSIUM

EFFECT OF POTASSIUM AND HYPOMAGNESEMIA ON INSULIN IN THE BOVINE. Lentz DE, Madsen FC, Miller JK, Hansard SL *J Anim Sci* 43: 1082-7, Nov 76 (Eng) DL/77FEB154

MYOCARDIAL LOSS OF FUNCTIONAL MAGNESIUM. I. EFFECT ON MITOCHONDRIAL INTEGRITY AND POTASSIUM RETENTION. Seelig MS *Recent Adv Stud Cardiac Struct Metab* 1: 615-25, 1972 (Eng) *DL/77FEB648

Diabetes Literature—Keyword Index

POTASSIUM ION

[BEHAVIOUR OF SERUM CONCENTRATIONS OF GLUCOSE, IMMUNOREACTIVE INSULIN AND POTASSIUM IONS IN NEWBORNS AFTER LONG TERM OR CRASH TREATMENTS WITH PARTUSISTEN OR PARTUSISTEN IN COMBINATION WITH ISOPTIN (AUTHORS TRANSL.)] Weidinger H, Mohr D, Haller K, Hiltmann WD, Vogel M *Z Geburtshilfe Perinatol* 180: 258-65, Aug 76 (Ger) DL/77FEB439

POTASSIUM, MYOCARDIAL

MYOCARDIAL POTASSIUM LOSS DURING ISCHEMIA. Case RB *Recent Adv Stud Cardiac Struct Metab* 1: 665-72, 1972 (Eng) *DL/77FEB650

POTASSIUM, SERUM

THYROTOXIC PERIODIC PARALYSIS: A PECULIAR CASE WITH UNUSUAL DYSTONIC BEHAVIOR AND VARIABLE RELATIONS OF PARALYSIS TO SERUM POTASSIUM LEVELS. Kusakabe T, Yoshida M, Nishikawa M *J Clin Endocrinol Metab* 43: 730-40, Oct 76 (Eng) DL/77FEB167

POTASSIUM-SODIUM CHANNEL

[RECONSTRUCTION OF A SINGLE CELLULAR POTASSIUM-SODIUM CHANNEL IN A LIPID BILAYER] Aleksandrov AA, Berestovskii GN, Volkova SP, Vostrikov Ia, Zherelova OM *Dokl Akad Nauk SSSR* 227: 723-6, 21 Mar 76 (Rus) *DL/77FEB545

PREDIABETES

ELEVATED KIDNEY GLUCOSYLTRANSFERASE ACTIVITY IN GENETIC PREDIABETIC MICE. Reddi AS, Oppermann W, Reddy MP, Velasco CA, Camerini-Davalos RA *Experientia* 32: 1237-8, 15 Oct 76 (Eng) DL/77FEB75

PREGNANCY

PLASMA CONCENTRATIONS OF UNCONJUGATED ESTRONE, ESTRADIOL-17BETA AND ESTRIOL, AND HCS THROUGHOUT PREGNANCY IN DIABETICS AND GESTATIONAL DIABETICS. De Hertogh R, Thomas K, Hoet JJ, Vanderheyden I *Diabetologia* 12: 455-61, Oct 76 (Eng) DL/77FEB114

[ALPHA FETO PROTEIN, NORMAL PREGNANCIES AND MATERNAL DISEASES. APROPOS OF 3,010 RADIOIMMUNOLOGIC DETERMINATIONS] Brettes JP, Tourne C, Gandar R *J Gynecol Obstet Biol Reprod (Paris)* 5: 637-44, Jul-Aug 76 (Fre) DL/77FEB176

MATERNAL PROTEIN MALNUTRITION DURING GESTATION ALONE AND ITS EFFECTS ON PLASMA INSULIN LEVELS OF THE PREGNANT PIG, ITS FETUSES AND THE DEVELOPING OFFSPRING. Atinmo T, Baldijao C, Pond WG, Barnes RH *J Nutr* 106: 1647-53, Nov 76 (Eng) DL/77FEB203

HYPERGLYCAEMIA AND HYPOGLYCAEMIA DURING PREGNANCY [EDITORIAL]. Anonymous *Lancet* 2: 889-90, 23 Oct 76 (Eng) DL/77FEB246

[NEONATAL HYPOGLYCEMIA FOLLOWING BETA BLOCKER TREATMENT IN PREGNANCY] Forthoft B, Jacobsen JR *Ugeskr Laeger* 138: 2958-9, 15 Nov 76 (Dan) DL/77FEB419

[CONCENTRATION OF PREGNANCY-SPECIFIC-BETA-I-PROTEIN SPI IN AMNIOTIC FLUID IN NORMAL AND PATHOLOGIC PREGNANCIES (AUTHORS

TRANSL.) Tatra G, Polak S, Placheta P *Arch Gynaekol* 221: 161-6, 17 Sep 76 (Ger) DL/77FEB494

PREGNANT DIABETIC

INTENSIVE CARE OF THE PREGNANT DIABETIC. Gugliucci CL, OSullivan MJ, Opperman W, Gordon M, Stone ML *Am J Obstet Gynecol* 125: 435-41, 15 JUN 76 (Eng) DL/77FEB469

PREMATURE ERUPTION

PREMATURE ERUPTION AND MACRODONITIA ASSOCIATED WITH INSULIN RESISTANT DIABETES AND PINEAL HYPERPLASIA. REPORT OF TWO CASES. Holmes J, Tanner MS *Br Dent J* 141: 280-4, 2 Nov 76 (Eng) DL/77FEB4

PREMATURE LABOR

[CLINICAL PROBLEMS OF PREMATURE LABOR. I. DIAGNOSIS OF THREATENING PREMATURE LABOR AND THE SCREENING PROCEDURE] Bayer H, Issel EP, Agricola H, Roigas E *Zentralbl Gynaekol* 98: 1025-34, 1976 (Ger) DL/77FEB447

PREMATURITY

[PREVENTIVE MEASURES AGAINST INFANT MORTALITY AND CEREBRAL DISEASES ASSOCIATED WITH PREMATURITY] Duc G *Gynaekol Rundsch* 15 suppl 1: 34-8, 1975 (Fre) *DL/77FEB562

PREOPERATIVE RISK

PREOPERATIVE RISK FACTORS AND AORTA-CORONARY BYPASS GRAFT PATENCY. Blumlein SL, Anderson AJ, Barboriak JJ, Rimm AA, Walker J, Flemma R *J Thorac Cardiovasc Surg* 72: 778-83, Nov 76 (Eng) DL/77FEB234

PREPROINSULIN

PARTIAL PURIFICATION AND CHARACTERIZATION OF THE MRNA FOR RAT PREPROINSULIN. Duguid JR, Steiner DF, Chick WL *Proc Natl Acad Sci USA* 73: 3539-43, Oct 76 (Eng) DL/77FEB359

PRESSURE

HIGH-PRESSURE LIQUID CHROMATOGRAPHIC ANALYSIS OF TOLBUTAMIDE IN SERUM. Weber DJ *J Pharm Sci* 65: 1502-5, OCT 76 (Eng) DL/77FEB209

PRESSURE, BLOOD

[THE SIGNIFICANCE OF STRESS INTENSITY FOR THE EMOTIONAL AND VISCERAL REACTIVITY, ESPECIALLY FOR BLOOD PRESSURE REGULATION] Hecht K, Hai NV, Moritz V, Hecht T *Acta Biol Med Ger* 35: 23-33, 1976 (Ger) DL/77FEB448

PREVENTIVE MEDICINE

[GENETIC COUNSELING IN PREVENTIVE MEDICINE] Schnedl W *Wien Med Wochenschr* 126: 565-8, 1 Oct 76 (Ger) DL/77FEB434

PRIMARY CULTURE

HORMONAL STIMULATION OF DNA SYNTHESIS IN PRIMARY CULTURES OF ADULT RAT HEPATOCYTES. Richman RA, Claus TH, Pilks SJ, Friedman DL *Proc Natl Acad Sci USA* 73: 3589-93, Oct 76 (Eng) DL/77FEB360

PROLACTIN

PRIMATE, NONHUMAN

A MODEL FOR THERAPEUTIC INTERVENTIONS ON ESTABLISHED CORONARY ATHEROSCLEROSIS IN A NONHUMAN PRIMATE. Malinow MR, McLaughlin O, Papworth L, Naito HK, Lewis L, McNulty WP *Adv Exp Med Biol* 67: 3-31, 1976 (Eng) *DL/77FEB694

THE NONHUMAN PRIMATES AS MODELS FOR STUDYING HUMAN ATHEROSCLEROSIS: STUDIES ON THE CHIMPANZEE, THE BABOON AND THE RHESUS MACACUS. Blaton V, Peeters H *Adv Exp Med Biol* 67: 33-64, 1976 (Eng) *DL/77FEB696

PROBE

STRUCTURAL STUDIES ON DES-PENTAPEPTIDE (B26-30)-INSULIN. IV. A PRELIMINARY INVESTIGATION ON THE HYDROPHOBIC REGION BY EMPLOYING A FLUORESCENCE PROBE, 1-P-TOLUIDINYLNAPHTHALENE-8-SULPHONATE. Anonymous *Sci Sin* 19: 486-96, Jul-Aug 76 (Eng) DL/77FEB396

PROGNOSIS

[LONG-TERM PROGNOSIS OF INFANTILE DIABETES (EDITORIAL)] Lestrade H, Besse J, Billaud L, Battistelli F, Tric F, Lestrade F *Nouv Presse Med* 6: 2297-8, 23 Oct 76 (Fre) DL/77FEB345

PROINSULIN

CLINICAL CORRELATIONS OF SERUM PROINSULIN-LIKE MATERIAL IN ISLET CELL TUMOURS. Alsever RN, Stjernholm MR, Sussman KE, Mako ME, Rubenstein AH *Diabetologia* 12: 527-30, Oct 76 (Eng) DL/77FEB123

THE EVOLUTIONARY ORIGIN OF PROINSULIN. AMINO ACID SEQUENCE HOMOLOGY WITH THE TRYPSIN-RELATED SERINE PROTEASES DETECTED AND EVALUATED BY NEW STATISTICAL METHODS. de Haen C, Swanson E, Teller DC *J Mol Biol* 106: 639-61, 25 Sep 76 (Eng) DL/77FEB215

PROINSULIN BIOSYNTHESIS

EFFECTS OF STREPTOZOTOCIN IN VITRO ON PROINSULIN BIOSYNTHESIS, INSULIN RELEASE AND ATP CONTENT OF ISOLATED RAT ISLETS OF LANGERHANS. Maldonado A, Trueheart PA, Renold AE, Sharp GW *Diabetologia* 12: 471-81, Oct 76 (Eng) DL/77FEB116

PROINSULIN SYNTHESIS

PROINSULIN SYNTHESIS IN ISLETS OF LANGERHANS FROM SPINY MICE (ACOMYS CAHIRINUS). COMPARISON WITH RATS AND MICE. Trueheart PA, Maldonado A, Kaelin D, Renold AE, Sharp GW *Diabetologia* 12: 463-70, Oct 76 (Eng) DL/77FEB115

PROLACTIN

DIABETIC RETINOPATHY AND PROLACTIN [LETTER]. Harter M, Balarac N, Pouchet P, Koslowski JM, Krebs B, Ramaioli A *Lancet* 2: 961-2, 30 Oct 76 (Eng) DL/77FEB248

INFLUENCE OF CHRONIC THYROTROPIN-RELEASING HORMONE INJECTIONS ON SECRETION OF PROLACTIN, THYROTROPIN AND GROWTH HORMONE AND ON GROWTH RATE IN WETHER LAMBS. Davis SL, Hill DM, Ohlson DL, Jacobs JA *J Anim Sci* 42: 1244-50, May 76 (Eng) *DL/77FEB566

PROLACTIN RECEPTOR

ACUTE AND CHRONIC ESTROGEN EFFECTS UPON SERUM SOMATOMEDIN ACTIVITY, GROWTH HORMONE, AND PROLACTIN IN MAN. Wiedemann E, Schwartz E, Frantz AG *J Clin Endocrinol Metab* 42: 942-52, May 76 (Eng) *DL/77FEB577

CIRCADIAN PATTERN OF PROLACTIN AND GROWTH HORMONE LEVELS IN FEMALE RATS OF TWO STRAINS. Esber HJ, Kuo E, Bogden AE *Lab Anim Sci* 26: 186-9, Apr 76 (Eng) *DL/77FEB604

DOPAMINE AND INHIBITION OF PROLACTIN AND GROWTH-HORMONE SECRETION. Massara F, Camanni F, Belforte L, Molinatti GM *Lancet* 1: 913, 24 Apr 76 (Eng) *DL/77FEB606

PROLACTIN RECEPTOR

INTERACTION OF CELL-MEMBRANE PROLACTIN RECEPTOR WITH ITS ANTIBODY. Shiu RP, Friesen HG *Biochem J* 157: 619-26, 1 Sep 76 (Eng) DL/77FEB501

PROLACTIN SECRETION

CONTROL OF GONADOTROPIN AND PROLACTIN SECRETION BY HYPOTHALAMIC RELEASING AND INHIBITING HORMONES. PP. 80-9. McCann SM, Cooper K, Harms PG, Libertun C, Negro-Vilar A, Ojeda SR, Orian R, Moss RL, Fawcett CP, Krulich L, Gilon C, Amoss M, Rivier C, Ling N, Burgess R, Guillemain R In: *Lederis K, Cooper KE, ed. Recent studies of hypothalamic function*. Basel, Karger, 1974. WL 312 165r 1973. (Eng) *DL/77FEB589

PROLIFERATION, HEPATIC

PRESENT PARADOXES IN THE ENVIRONMENTAL CONTROL OF HEPATIC PROLIFERATION. Leffert HL, Koch KS, Rubalcava B *Cancer Res* 36: 4250-5, Nov 76 (Eng) DL/77FEB38

CONTROL OF HEPATIC PROLIFERATION: A WORKING HYPOTHESIS INVOLVING HORMONES, LIPOPROTEINS, AND NOVEL NUCLEOTIDES. Koch KS, Leffert HL *Metabolism* 25: 1419-22, Nov 76 (Eng) DL/77FEB287

PROPRANOLOL

PROPRANOLOL EFFECT ON PLASMA GLUCOSE, FREE FATTY ACID, INSULIN, AND GROWTH HORMONE IN GRAVES DISEASE. Ortigosa JL, Mendoza F, Argote RM, Garcia G, Cervantes C, Parra A *Metabolism* 25: 1201-7, Nov 76 (Eng) DL/77FEB260

[BLOOD GLUCOSE LEVELS IN PATIENTS ON HEMODIALYSIS DURING PROPRANOLOL (INDERAL) TREATMENT] Jensen HA, Laursen PA, Moller BB *Ugeskr Laeger* 138: 2956-7, 15 Nov 76 (Dan) DL/77FEB418

PROSTAGLANDIN

THE EFFECTS OF HORMONES AND PROSTAGLANDINS ON THE CALCIUM POOLS IN CULTURED MYOCARDIAL CELLS. Moura AM, Simpkins H *Mol Cell Endocrinol* 5: 349-57, OCT 76 (Eng) DL/77FEB98

PROTEASE

THE EVOLUTIONARY ORIGIN OF PROINSULIN. AMINO ACID SEQUENCE HOMOLOGY WITH THE TRYPSIN-RELATED SERINE PROTEASES DETECTED AND EVALUATED BY NEW STATISTICAL METHODS. de Haen C, Swanson E, Teller DC *J Mol Biol* 106: 639-61, 25 Sep 76 (Eng) DL/77FEB215

PROTEIN

PURIFICATION AND CHARACTERIZATION OF A PROTEIN FROM PORCINE GUT WITH GLUCAGON-LIKE IMMUNOREACTIVITY. Sundby F, Jacobsen H, Moody AJ *Horm Metab Res* 8: 366-71, Sep 76 (Eng) DL/77FEB143

MATERNAL PROTEIN MALNUTRITION DURING GESTATION ALONE AND ITS EFFECTS ON PLASMA INSULIN LEVELS OF THE PREGNANT PIG, ITS FETUSES AND THE DEVELOPING OFFSPRING. Atinmo T, Baldijao C, Pond WG, Barnes RH *J Nutr* 106: 1647-53, Nov 76 (Eng) DL/77FEB203

PLASMA INSULIN LEVELS IN WEANED PIGS FED PROTEIN OR ENERGY RESTRICTED DIETS. Atinmo T, Baldijao C, Pond WG, Barnes RH *J Nutr* 106: 1654-8, Nov 76 (Eng) DL/77FEB204

[HIGH-PROTEIN BREAD FOR DIABETICS] Rojszkowa E, Szelnerowa T, Banek H, Laweck J *Pol Tyg Lek* 31: 1729-31, 4 Oct 76 (Pol) DL/77FEB348

REGULATION BY LIPOLYTIC AND ANTILIPOLYTIC COMPOUNDS OF THE PHOSPHORYLATION OF SPECIFIC PROTEINS IN ISOLATED INTACT FAT CELLS. Forn J, Greengard P *Arch Biochem Biophys* 176: 721-33, Oct 76 (Eng) DL/77FEB488

EFFECTS OF HORMONES ON PROTEIN AND AMINO ACID METABOLISM IN MAMMARY GLAND EXPLANTS OF MICE. Anderson LD, Rillema JA *Biochem J* 158: 355-9, 15 Aug 76 (Eng) DL/77FEB506

CONTROL OF PROTEIN BALANCE IN HYPERTROPHIED CARDIAC MUSCLE. Zak R, Martin AF, Reddy MK, Rabinowitz M *Circ Res* 38: 1145-50, May 76 (Eng) *DL/77FEB537

HIGH MOLECULAR WEIGHT PROTEIN FROM HUMAN LENSES. Roy D, Spector A *Exp Eye Res* 22: 273-9, Mar 76 (Eng) *DL/77FEB554

BETA-IPROTEIN

[CONCENTRATION OF PREGNANCY-SPECIFIC BETA-1-PROTEIN SPI IN AMNIOTIC FLUID IN NORMAL AND PATHOLOGIC PREGNANCIES (AUTHORS TRANSL)] Tatra G, Polak S, Placheta P *Arch Gynaecol* 221: 161-6, 17 Sep 76 (Ger) DL/77FEB494

PROTEIN, ALPHA FETO

[ALPHA FETO PROTEIN. NORMAL PREGNANCIES AND MATERNAL DISEASES. APROPOS OF 3,010 RADIOIMMUNOLOGIC DETERMINATIONS] Brettes JP, Tourne CE, Gandar R *J Gynecol Obstet Biol Reprod (Paris)* 5: 637-44, Jul - Aug 76 (Fre) DL/77FEB176

PROTEIN BIOSYNTHESIS

THE EFFECTS OF POLYAMINES ON CARDIAC PROTEIN BIOSYNTHESIS. Gibson K, Harris P *Recent Adv Stud Cardiac Struct Metab* 7: 71-6, 1975 (Eng) *DL/77FEB678

PROTEIN, CONTRACTILE

INCORPORATION OF AMINO ACID INTO TOTAL AND CONTRACTILE PROTEIN OF TISSUE SLICES OF THE HYPERTROPHIC RAT HEART. Wollenberger A, Onnen K *Recent Adv Stud Cardiac Struct Metab* 1: 186-9, 1972 (Eng) *DL/77FEB638

PROTEIN ENERGY MALNUTRITION

PROTEIN-ENERGY MALNUTRITION. DeMaeyer EM *WHO Monogr Ser* 23-54, 1976 (Eng) [46] DL/77FEB430

PROTEIN HYDROLYSIS

[PROTEIN HYDROLYSIS BY IMMOBILIZED ENZYMES] Lasch J, Koelsch R, Roth P, Gabert A, Marquardt I, Hanson H *Acta Biol Med Ger* 35: 735-43, 1976 (Ger) DL/77FEB452

PROTEIN KINASE

STUDIES ON THE ROLE OF CAMP-DEPENDENT PROTEIN KINASE IN THE ACTIONS OF GLUCAGON AND CATECHOLAMINES ON LIVER GLYCOGEN METABOLISM. Cherrington AD, Exton JH *Metabolism* 25: 1351-4, Nov 76 (Eng) DL/77FEB272

PROTEIN KINASES AND THEIR SUBSTRATES IN BROWN ADIPOSE TISSUE FROM NEWBORN RATS. Knight BL *Biochim Biophys Acta* 429: 798-808, 13 May 76 (Eng) *DL/77FEB521

INFLUENCE ON ADIPOCYTE PLASMA MEMBRANE BOUND PROTEIN KINASE BY FEEDBACK REGULATOR. Ho R, Russell T, Asakawa T, Snyder RP *J Cyclic Nucleotide Res* 1: 349-58, 1975 (Eng) *DL/77FEB580

STUDIES ON CYCLIC GMP-DEPENDENT PROTEIN KINASE PROPERTIES BY BLUE DEXTRAN-SEPHAROSE CHROMATOGRAPHY. Kobayashi R, Fang VS *Biochem Biophys Res Commun* 69: 1080-7, 19 Apr 76 (Eng) *DL/77FEB716

PROTEIN, MITOCHONDRIAL

INFLUENCE OF THE HYPOTHYROIDISM ON MITOCHONDRIAL PROTEIN SYNTHESIS. de Favelukes SS, de Tarlovsky MS, Bedetti CD, Stoppani AO *Acta Physiol Lat Am* 25: 107-11, 1975 (Eng) *DL/77FEB688

PROTEIN PHOSPHATASE

INSULIN STIMULATION OF HEART GLYCOGEN SYNTHASE D PHOSPHATASE (PROTEIN PHOSPHATASE). Nuttall FQ, Gannon MC, Corbett VA, Wheeler MP *J Biol Chem* 251: 6724-9, 10 Nov 76 (Eng) DL/77FEB160

PROTEIN SECRETION

DISCUSSION PAPER ON CHOLINERGIC REGULATION OF GLYCOGENOLYSIS AND PROTEIN SECRETION IN RAT SALIVARY GLANDS. PP. 295-6. Rossignol B, Herman G, Keryer G, Chambaut-Guerin AM, Ovtracht L, Bussion S, Brown EM, Fedak SA, Woodard CI, Aurbach GD In: *Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract*. Baltimore, Univ Park Press, 1976. W1 102 5859 1975. (Eng) *DL/77FEB585

PROTEIN STRUCTURE

CONCAVALIN A STIMULATION MODIFIES THE LIPID AND PROTEIN STRUCTURE OF RABBIT THYMOCYTE PLASMA MEMBRANES. A LASER RAMAN STUDY. Schmidt-Ullrich R, Verma SP, Wallach DF *Biochim Biophys Acta* 426: 477-88, 19 Mar 76 (Eng) *DL/77FEB519

PROTEIN SYNTHESIS

FACTORS CONTROLLING PROTEIN SYNTHESIS IN HEART MUSCLE. Hjalmarson AC, Isaksson O, Kallfelt BJ *Adv Cardiol* 18: 57-80, 1976 (Eng) DL/77FEB463

EFFECTS OF ANOXIA AND ISCHEMIA ON PROTEIN SYNTHESIS IN PERFUSED RAT HEARTS. Kao R, Rannels DE, Morgan HE *Circ Res* 38: 1124-30, May 76 (Eng) *DL/77FEB536

KINETICS OF PROTEIN SYNTHESIS AND RELEASE IN THE STH-CELL OF THE MOUSE ANTERIOR PITUITARY. AS

Diabetes Literature—Keyword Index

RECEPTOR, BETA

J Gynecol Obstet Biol Reprod (Paris) 5: 637-44, Jul - Aug 76 (Fre) DL/77FEB176

[RADIOIMMUNOLOGIC DETERMINATION OF STH, INSULIN, AND C-PEPTIDE. INDICATION, FUNCTIONAL TESTS, INTERPRETATION OF THE FINDINGS] Schroder KE, Raptis S, Beischer W *Med Welt* 27: 1720-5, 10 Sep 76 (Ger) DL/77FEB257

RADIOIMMUNOLOGY

[ALPHA FETO PROTEIN. NORMAL PREGNANCIES AND MATERNAL DISEASES. APROPOS OF 3,010 RADIOIMMUNOLOGIC DETERMINATIONS] Brettes JP, Tourne CE, Gandar R *J Gynecol Obstet Biol Reprod (Paris)* 5: 637-44, Jul - Aug 76 (Fre) DL/77FEB176

RADIORECEPTOR ASSAY

RADIORECEPTOR ASSAY OF PLASMA NSILAS IN MAN: BASAL AND STIMULATED LEVELS IN NORMAL AND PATHOLOGIC STATES. PP. 127-40. Megyesi K, Kahn CR, Roth J, Gordon P, Neville DM Jr *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB187*

RECEPTOR

EFFECTS OF IODINATION OF TYROSYL RESIDUES ON THE BINDING AND ACTION OF GLUCAGON AT ITS RECEPTOR. Lin MC, Nicosia S, Rodbell M *Biochemistry* 15: 4537-40, 5 Oct 76 (Eng) DL/77FEB9

CELL SURFACE RECEPTORS FOR INSULIN AND HUMAN GROWTH HORMONE. EFFECT OF MICROTUBULE AND MICROFILAMENT MODIFIERS. Van Obberghen E, De Meyts P, Roth J *J Biol Chem* 251: 6844-51, 10 Nov 76 (Eng) DL/77FEB161

RELEASE OF ADENOSINE-LIKE MATERIAL FROM ISOLATED PERFUSED DOG ADIPOSE TISSUE FOLLOWING SYMPATHETIC NERVE STIMULATION AND ITS INHIBITION BY ADRENERGIC ALPHA-RECEPTOR BLOCKADE. Fredholm BB *Acta Physiol Scand* 96: 122-30, Mar 76 (Eng) *DL/77FEB689

RECEPTOR, ALPHA ADRENERGIC

THE EFFECT OF ALPHA AND BETA ADRENERGIC RECEPTOR STIMULATION ON THE ADENYLATE CYCLASE ACTIVITY OF HUMAN ADIPOCYTES. Burns TW, Langley PE *J Cyclic Nucleotide Res* 1: 321-8, 1975 (Eng) *DL/77FEB579

RECEPTOR ANTAGONIST

EFFECT OF SOME RECEPTOR ANTAGONISTS ON FENFLURAMINE-INDUCED GLUCOSE UPTAKE INTO THE ISOLATED RAT HEMIDIAPHRAGM [PROCEEDINGS]. Kirby MJ, Turner P *Br J Pharmacol* 58: 286p-287p, Oct 76 (Eng) DL/77FEB18

H2RECEPTOR ANTAGONIST

EFFECT OF THE HISTAMINE H2-RECEPTOR ANTAGONIST, CIMETIDINE, ON GASTRIC SECRETION AND SERUM GASTRIN DURING INSULIN INFUSION IN MAN. Carter DC, Forrest JA, Logan RA, Ansell I, Lidgard G, Heading RC, Shearman DJ *Scand J Gastroenterol* 11: 565-70, 1976 (Eng) DL/77FEB393

RECEPTOR, BETA

HOLOCATALYTIC STATE OF ADENYLATE CYCLASE IN TURKEY ERYTHROCYTE MEMBRANES: FORMATION WITH GUANY-

REVEALED BY ELECTRON MICROSCOPIC AUTORADIOGRAPHY OF 3H-AMINO ACIDS. Hiura M, Komatsu M, Fujita H *Arch Histol Jpn* 38: 347-57, Feb 76 (Eng) *DL/77FEB709

PROTEINASE

NEUTRAL PROTEINASE ACTIVITY IN THE HUMAN LENS. Trayhurn P, van Heyningen R *Exp Eye Res* 22: 251-7, Mar 76 (Eng) *DL/77FEB553

PROTEOLYSIS

BEHAVIOR OF THE LYSOSOMAL SYSTEM DURING ORGAN PERFUSION. AN INQUIRY INTO THE MECHANISM OF HEPATIC PROTEOLYSIS. Mortimore GE, Ward WF *Front Biol* 45: 157-84, 1976 (Eng) [65] DL/77FEB80

ENERGY METABOLISM AND PROTEOLYSIS IN TRAUMATIZED AND SEPTIC MAN. Clowes GH Jr, O'Donnell TF, Blackburn GL, Maki TN *Surg Clin North Am* 56: 1169-84, Oct 76 (Eng) [53] DL/77FEB406

PROTON TRANSLLOCATION

A MODEL FOR CONFORMATIONAL COUPLING OF MEMBRANE POTENTIAL AND PROTON TRANSLLOCATION TO ATP SYNTHESIS AND TO ACTIVE TRANSPORT. Boyer PD *FEBS Lett* 58: 1-6, 15 Oct 75 (Eng) *DL/77FEB555

PUBERTY

MEAN 24-HOUR GROWTH HORMONE AND TESTOSTERONE CONCENTRATIONS IN RELATION TO PUBERTAL GROWTH SPURT IN BOYS WITH NORMAL OR DELAYED PUBERTY. Butenandt O, Eder R, Wohlfarth K, Bidlingmaier F, Knorr D *Eur J Pediatr* 122: 85-92, 4 May 76 (Eng) *DL/77FEB551

PULMONARY TUBERCULOSIS

[CLINICAL STUDIES ON INSULIN RESPONSE TO GLUCOSE TOLERANCE TEST IN PATIENTS WITH PULMONARY TUBERCULOSIS (AUTHORS TRANSL)] Oe N *Kekkaku* 51: 313-28, 15 Aug 76 (Jpn) DL/77FEB222

PURINE METABOLISM

[SELECTED PHSIOPATHOLOGICAL AND CLINICAL ASPECTS OF PURINE METABOLISM] Chodorowski Z *Pol Tyg Lek* 31: 1733-5, 4 Oct 76 (Pol) [30] DL/77FEB349

PYELONEPHRITIS

ACUTE PYELONEPHRITIS SIMULATING POORLY VASCULARIZED RENAL NEOPLASM. NON-SPECIFICITY OF ANGIOGRAPHIC CRITERIA. Barth KH, Lightman NI, Ridolfi RL, Catalona WJ *J Urol* 116: 650-2, Nov 76 (Eng) DL/77FEB216

PYRUVATE

[ANTAGONISM IN THE ACTION OF HYDROCORTISONE AND INSULIN IN VIVO ON ENZYMES OF PYRUVATE AND MALATE METABOLISM IN ADIPOSE TISSUE] Ilin VS, Vasileva LE, Tokhadze OG *Biokhimiia* 41: 1646-50, Sep 76 (Rus) DL/77FEB12

ORGAN DISTRIBUTION OF RAT HISTIDINE-PYRUVATE AMINOTRANSFERASE ISOENZYMES. Noguchi T, Minatogawa Y, Okuno E, Kido R *Biochem J* 157: 635-41, 1 Sep 76 (Eng) DL/77FEB502

PYRUVATE DEHYDROGENASE

KETONIC DIET IN THE MANAGEMENT OF PYRUVATE DEHYDROGENASE DEFICIENCY. Falk RE, Cederbaum SD, Blass JP, Gibson GE, Kark RA, Carrel RE *Pediatrics* 58: 713-21, Nov 76 (Eng) DL/77FEB338

PYRUVATE KINASE

POSSIBLE ROLE OF PYRUVATE KINASE IN THE HORMONAL CONTROL OF DIHYDROXYACETONE GLUCONEOGENESIS IN ISOLATED HEPATOCYTES. Pilks SJ, Claus TH, Riou JP, Park CR *Metabolism* 25: 1355-60, Nov 76 (Eng) DL/77FEB273

CYCLOC NUCLEOTIDE-, PYRUVATE- AND HORMONE-INDUCED CHANGES IN PYRUVATE KINASE ACTIVITY IN ISOLATED RAT HEPATOCYTES. van Berkel TJ, Kruijt JK, Koster JF, Hulsmann WC *Biochem Biophys Res Commun* 72: 917-25, 4 Oct 76 (Eng) DL/77FEB511

RADICAL

FURTHER STUDIES ON THE POSSIBILITY OF DIFFERENTIAL DEMONSTRATION OF RADICALS OF SULPHUR-CONTAINING AMINO-ACIDS. Szydlowska H, Junikiewicz E *Folia Histochem Cytochem (Krakow)* 14: 57-62, 1976 (Eng) *DL/77FEB563

RADIOACTIVITY

A RAPID METHOD FOR THE DETERMINATION OF GLYCOGEN CONTENT AND RADIOACTIVITY IN SMALL QUANTITIES OF TISSUE OR ISOLATED HEPATOCYTES. Chan TM, Exton JH *Anal Biochem* 71: 96-105, Mar 76 (Eng) *DL/77FEB701

THE INCORPORATION OF RADIOACTIVE FATTY ACIDS AND OF RADIOACTIVE DERIVATIVES OF GLUCOSE INTO THE PHOSPHOLIPIDS OF SUBSYNAPTOSOMAL FRACTIONS OF CEREBRAL CORTEX. Baker R, Dowdall MJ, Whittaker VP *Biochem J* 154: 65-75, 15 Jan 76 (Eng) *DL/77FEB715

RADIOGRAPHY

COMPARISON OF NON-SCREEN TECHNIQUES (MEDICAL VS. INDUSTRIAL FILM) FOR FINE-DETAIL SKELETAL RADIOGRAPHY. Genant HK, Doi K, Mall JC *Invest Radiol* 11: 486-500, SEP-OCT 76 (Eng) DL/77FEB151

A RADIOGRAPHIC STUDY OF NUTRIENT CANALS. Patel JR, Wuehrmann AH *Oral Surg* 42: 693-701, Nov 76 (Eng) DL/77FEB332

RADIOIMMUNOASSAY

[IN VITRO ASSAY FOR ACTH-RELEASING ACTIVITY USING ACTH RADIOIMMUNOASSAY: ACTH RELEASING ACTIVITIES BY VARIOUS DRUGS (AUTHORS TRANSL)] Hashimoto K, Takahara J, Hosogi H, Ofuji N, Yasuhara T *Folia Endocrinol Jpn* 52: 114-24, 20 Feb 76 (Jpn) DL/77FEB82

HUMAN C-PEPTIDE IMMUNOREACTIVITY (CPR) IN BLOOD AND URINE - EVALUATION OF A RADIOIMMUNOASSAY METHOD AND ITS CLINICAL APPLICATIONS. Kuzuya T, Saito T, Yoshida S, Matsuda A *Diabetologia* 12: 511-8, Oct 76 (Eng) DL/77FEB120

RADIOIMMUNOLOGIC DETERMINATION

[ALPHA FETO PROTEIN. NORMAL PREGNANCIES AND MATERNAL DISEASES. APROPOS OF 3,010 RADIOIMMUNOLOGIC DETERMINATIONS] Brettes JP, Tourne CE, Gandar R

Diabetes Literature—Keyword Index

RECEPTOR, BETA ADRENERGIC

LYLIMIDODIPHOSPHATE PLUS ISOPROTERENOL WITHOUT EFFECT ON AFFINITY OF BETA-RECEPTOR. Spiegel AM, Brown EM, Fedak SA, Woodard CJ, Aurbach GD. *J Cyclic Nucleotide Res* 2: 47-56, 1976 (Eng) *DL/77FEB583

RECEPTOR, BETA ADRENERGIC

ADIPOCYTE BETA-ADRENERGIC RECEPTORS. IDENTIFICATION AND SUBCELLULAR LOCALIZATION BY (-)-[3H]DIHYDROALPRENOLOL BINDING. Williams LT, Jarett L, Lefkowitz RJ. *J Biol Chem* 251: 3096-104, 25 May 76 (Eng) *DL/77FEB572

THE EFFECT OF ALPHA AND BETA ADRENERGIC RECEPTOR STIMULATION ON THE ADENYLATE CYCLASE ACTIVITY OF HUMAN ADIPOCYTES. Burns TW, Langley PE. *J Cyclic Nucleotide Res* 1: 321-8, 1975 (Eng) *DL/77FEB579

RECEPTOR BINDING

THE RELATION OF STRUCTURE TO STORAGE AND RECEPTOR BINDING OF GLUCAGON. Blundell TL, Dockerill S, Sasaki K, Tickle JJ, Wood SP. *Metabolism* 25: 1331-6, Nov 76 (Eng) DL/77FEB268

RECEPTOR, CELL SURFACE

CELL SURFACE RECEPTORS. A BIOLOGICAL PERSPECTIVE. PP. 1-32. Greaves MF. In: Cuatrecasas P, Greaves MF, ed. *Receptors and recognition. Series A*. London, Chapman & Hall, 1976. W1 RE107m v.1 1976. (Eng) [83] *DL/77FEB587

RECEPTOR, HORMONE

HORMONAL REGULATION OF THE AFFINITY AND CONCENTRATION OF HORMONE RECEPTORS IN TARGET CELLS. DeMeys P, Kahn CR, Roth J, Bar RS. *Metabolism* 25: 1365-70, Nov 76 (Eng) DL/77FEB275

RECEPTOR, INSULIN

IDENTIFICATION AND CHARACTERIZATION OF THE INSULIN RECEPTOR IN THE R3230AC MAMMARY ADENOCARCINOMA OF THE RAT. Harmon JT, Hill R. *Cancer Res* 36: 3993-4000, Nov 76 (Eng) DL/77FEB37

[INSULIN RECEPTORS-A REVIEW (AUTHORS TRANSL)] Freychet P. *Diabetes Metab* 1: 57-68, Mar 75 (Fre) [82] DL/77FEB89

A STUDY OF INSULIN RECEPTORS IN HUMAN MONONUCLEAR LEUCOCYTES. Pedersen O, Beck-Nielsen H. *Acta Endocrinol (Kbh)* 83: 556-64, Nov 76 (Eng) DL/77FEB455

THE INSULIN RECEPTOR IN NORMAL AND OBESE PERSONS. Beck-Nielsen H, Pedersen O, Bagger JP, Sorensen NS. *Acta Endocrinol (Kbh)* 83: 565-75, Nov 76 (Eng) DL/77FEB456

RECEPTOR, MITOGENIC

MITOGEN RECEPTORS IN CHICK EMBRYO FIBROBLASTS. KINETICS, SPECIFICITY, UNMASKING, AND SYNTHESIS OF 125I-INSULIN BINDING SITES. Raizada MK, Perdue JF. *J Biol Chem* 251: 6445-55, 25 Oct 76 (Eng) DL/77FEB159

RECEPTOR, PROLACTIN

INTERACTION OF CELL-MEMBRANE PROLACTIN RECEPTOR WITH ITS ANTIBODY. Shiu RP, Friessen HG. *Biochem J* 157: 619-26, 1 Sep 76 (Eng) DL/77FEB501

RED BLOOD CELL

INTERACTION BETWEEN PHLORETIN AND THE RED BLOOD CELL MEMBRANE. Jennings ML, Solomon AK. *J Gen Physiol* 67: 381-97, Apr 76 (Eng) *DL/77FEB598

RED BLOOD CELL MEMBRANE

INTERACTION BETWEEN PHLORETIN AND THE RED BLOOD CELL MEMBRANE. Jennings ML, Solomon AK. *J Gen Physiol* 67: 381-97, Apr 76 (Eng) *DL/77FEB598

REDOX

HORMONE REGULATED REDOX FUNCTION IN PLASMA MEMBRANES. Low H, Crane FL. *FEBs Lett* 68: 157-9, 1 Oct 76 (Eng) DL/77FEB77

REDUCING DIET

[BEHAVIOR OF KETONE BODIES, BLOOD LIPIDS AND OF VARIOUS LABORATORY-CHEMISTRY PARAMETERS DURING ISO-CALORIC HIGH-CARBOHYDRATE AND HIGH-FAT REDUCING DIETS] Schubert WR, Vogel B, Schmullinger RM, Eggstein M. *Verh Dtsch Ges Inn Med* 81: 1397-1400, 1975 (Ger) *DL/77FEB684

REDUCTASE, ALDEHYDE

PARTIAL PURIFICATION OF THE NADPH-DEPENDENT ALDEHYDE REDUCTASE FROM BOVINE CARDIAC MUSCLE. Kawalek JC, Gilbertson JR. *Arch Biochem Biophys* 173: 649-57, Apr 76 (Eng) *DL/77FEB703

REFLECTOMETER

[COMPARATIVE QUANTITATIVE RAPID DETERMINATION OF BLOOD SUGAR BY MEANS OF VARIOUS REFLECTOMETER-SYSTEMS] Scherthaner G, Erd W, Sinzinger H, Penner E. *Wien Med Wochenschr* 126: 571-4, 1 Oct 76 (Ger) DL/77FEB435

REGENERATION

INSULIN AND GLUCAGON AS MODIFIERS OF DNA SYNTHESIS IN THE REGENERATING RAT LIVER. Price JB Jr. *Metabolism* 25: 1427-8, Nov 76 (Eng) DL/77FEB289

INSULIN, GLUCAGON, AND THE CONTROL OF HEPATIC STRUCTURE, FUNCTION, AND CAPACITY FOR REGENERATION. Starzl TE, Porter KA, Putnam CW. *Metabolism* 25: 1429-34, Nov 76 (Eng) DL/77FEB290

REGENERATION, LIVER

INSULIN, GLUCAGON, LIVER REGENERATION, AND DNA SYNTHESIS. Bucher NL, Weir GC. *Metabolism* 25: 1423-5, Nov 76 (Eng) DL/77FEB288

RELEASING HORMONE, LUTENIZING

LUTEINIZING RELEASE HORMONE TESTS IN IMPOTENT DIABETIC MALES. Wright AD, London DR, Holder G, Williams JW, Rudd BT. *Diabetes* 25: 975-7, Oct 76 (Eng) DL/77FEB106

RELEASING HORMONE, THYROTROPIN

INFLUENCE OF CHRONIC THYROTROPIN-RELEASING HORMONE INJECTIONS ON SECRETION OF PROLACTIN, THYROTROPIN AND GROWTH HORMONE AND ON GROWTH RATE IN WETHER LAMBS. Davis SL, Hill DM, Ohlson DL, Jacobs

JA. *J Anim Sci* 42: 1244-50, May 76 (Eng) *DL/77FEB566

RENAL

RENAL WASTAGE OF INSULIN IN CHILDREN WITH DIABETES MELLITUS. Malone JJ, Root AW. *Diabetes* 25: 989-93, Oct 76 (Eng) DL/77FEB109

RENAL FAILURE

FOREWORD: PROLONGING LIFE IN PATIENTS WITH TERMINAL RENAL FAILURE. Straffon RA. *Urol Clin North Am* 3: 453-6, Oct 76 (Eng) DL/77FEB423

RENAL INSUFFICIENCY

THE ENDOCRINE SYSTEM IN PATIENTS WITH ACUTE RENAL INSUFFICIENCY. Kokot F, Kuska J. *Kidney Int [Suppl]* 10: 826-31, Oct 76 (Eng) DL/77FEB223

RENAL NEOPLASM

ACUTE PYELONEPHRITIS SIMULATING POORLY VASCULARIZED RENAL NEOPLASM. NON-SPECIFICITY OF ANGIOGRAPHIC CRITERIA. Barth KH, Lightman NI, Ridolfi RL, Catalona WJ. *J Urol* 116: 650-2, Nov 76 (Eng) DL/77FEB216

RENIN

STUDIES ON MEMBRANE-BOUND RENIN IN THE MOUSE AND RAT. Wilson CM, Ward PE, Erdos EG, Geese A. *Circ Res* 38: 95-8, Jun 76 (Eng) *DL/77FEB541

RENIN, PLASMA

PLASMA RENIN ACTIVITY IN DIABETIC AUTONOMIC NEUROPATHY. Campbell IW, Ewing DJ, Anderson JL, Thompson JH, Horn DB, Clarke BF. *Eur J Clin Invest* 6: 381-5, 10 Sep 76 (Eng) DL/77FEB73

PLASMA RENIN ACTIVITY AND HYPERTENSION IN DIABETES MELLITUS. Christlieb AR, Kaldany A, Delia JA. *Diabetes* 25: 969-74, Oct 76 (Eng) DL/77FEB105

REPLICATION

PANCREATIC BETA CELL REPLICATION: EFFECTS OF HEXOSE SUGARS. King DL, Chick WL. *Endocrinology* 99: 1003-9, OCT 76 (Eng) DL/77FEB68

RESISTANCE, INSULIN

INSULIN RESISTANT DIABETES MELLITUS WITHOUT THE PRESENCE OF INSULIN ANTIBODIES. A CASE REPORT. Pav J, Sramkova J, Matys Z. *Endokrinologie* 67: 373-6, 1976 (Eng) DL/77FEB71

INSULIN RESISTANCE AND RELATED ELECTRICAL ACTIVITY OF THE SMALL INTESTINE. Ruckebusch M, Weekes TE. *Experientia* 32: 1163-5, 15 Sep 76 (Eng) DL/77FEB76

THE METABOLIC FATE OF PLASMA LIPOPROTEINS IN NORMAL SUBJECTS AND IN PATIENTS WITH INSULIN RESISTANCE AND ENDOGENOUS HYPERTRIGLYCERIDAEMIA. Kissebah AH, Alfarsi S, Adams PW, Wynn V. *Diabetologia* 12: 501-9, Oct 76 (Eng) DL/77FEB119

USE OF SULFATED INSULIN IN INSULIN RESISTANCE [LETTER]. Bartle WR. *Am J Hypertens* 33: 874-9, Sep 76 (Eng) DL/77FEB466

Diabetes Literature—Keyword Index

RESPIRATION

EFFECTS OF IODOACETATE AND FLUORIDE ON ISLATE RESPIRATION AND INSULIN BIOSYNTHESIS. Lin BJ, Henderson MJ, Levine BB, Nagy BR, Nagy EM *Horm Metab Res* 8: 353-8, Sep 76 (Eng) DL/77FEB141

REST

[MUSCLE METABOLISM OF GLUCOSE, LACTATE, FREE FATTY ACIDS, AND GLYCEROL AT REST AND DURING ELECTRICALLY STIMULATED EXERCISE IN THE PERFUSED RAT HIND LIMB (AUTHORS TRANSL)] Dieterle C, Gartner R, Dieterle P *Res Exp Med (Berl)* 168: 23-33, 22 Jul 76 (Ger) DL/77FEB378

ARTERIAL-HEPATIC VEIN GLUCOSE DIFFERENCES IN NORMAL AND DIABETIC MAN AFTER A GLUCOSE INFUSION AT REST AND AFTER EXERCISE. Machlum S, Jervell J, Pruett ED *Scand J Clin Lab Invest* 36: 415-22, Sep 76 (Eng) DL/77FEB391

RETICULUM, SARCOPLASMIC

ASSOCIATION OF GLYCOGENOLYSIS WITH CARDIAC SARCOPLASMIC RETICULUM. Entam ML, Kanike K, Goldstein MA, Nelson TE, Bornet EP, Futch TW, Schwartz A *J Biol Chem* 251: 3140-6, 25 May 76 (Eng) *DL/77FEB575

AN EXPERIMENT ELIMINATING THE ROTATING CARRIER MECHANISM FOR THE ACTIVE TRANSPORT OF CA ION IN SARCOPLASMIC RETICULUM MEMBRANES. Dutton A, Rees ED, Singer SJ *Proc Natl Acad Sci USA* 73: 1532-6, May 76 (Eng) *DL/77FEB624

RETINA, INFARCT

REGIONAL ISCHEMIC INFARCTS OF THE RETINA. Foos RY *Albrecht von Graefes Arch Klin Ophthalmol* 200: 183-94, 1976 (Eng) DL/77FEB481

RETINAL

[THE CENTRAL VITREO-RETINAL FIBROPLASTIC (EDEMATOUS-FIBROPLASTIC) SYNDROME (AUTHORS TRANSL)] Vodovozov AM *Klin Monatsbl Augenheilkd* 169: 212-25, Aug 76 (Ger) DL/77FEB227

RETINAL RESEARCH

ANNUAL REVIEW OF RETINAL RESEARCH. Cohen J *Am J Optom Physiol Opt* 53: 483-9, Sep 76 (Eng) [29] DL/77FEB471

RETINOPATHY, DIABETIC

DIABETIC RETINOPATHY: PATHOGENESIS AND PREVENTION. Kornzweig AL *Compr Ther* 2: 58-63, Nov 76 (Eng) DL/77FEB54

DIABETIC RETINOPATHY AND PROLACTIN [LETTER]. Harter M, Balarac N, Pourcher P, Koslowski JM, Krebs B, Ramaoli A *Lancet* 2: 961-2, 30 Oct 76 (Eng) DL/77FEB248

[DIABETIC RETINOPATHY] Haut J, Rousselle F *Rev Prat* 26: 3121-8, 11 Oct 76 (Fre) DL/77FEB384

DIABETIC RETINOPATHY STUDY. PRELIMINARY RESULTS FROM 215 PATIENTS TREATED UNIOCCULARLY WITH PHOTOCOAGULATION. Koerner F, Schlegel D, Koerner U *Albrecht von Graefes Arch Klin Ophthalmol* 200: 99-111, 30 Aug 76 (Eng) DL/77FEB480

RETROBULBAR ABSCESS

[GANGRENE OF THE NASAL CONCHAS AND NASAL SEPTUM, RETROBULBAR ABSCESS AND RHINOGENIC SEPSIS IN A PATIENT WITH DIABETES MELLITUS] Sagalchik IaS *Zh Vyssh Nerv Deiat* 26: 100-1, Jun-Aug 76 (Rus) DL/77FEB442

REVASCULARIZATION

COMPLICATIONS OF CEREBRAL REVASCULARIZATION. Reichman OH *Clin Neurosurg* 23: 318-35, 1976 (Eng) DL/77FEB47

REVIEW

[INSULIN RECEPTORS-A REVIEW (AUTHORS TRANSL)] Freychet P *Diabete Metab* 1: 57-68, Mar 75 (Fre) [82] DL/77FEB89

ANNUAL REVIEW OF RETINAL RESEARCH. Cohen J *Am J Optom Physiol Opt* 53: 483-9, Sep 76 (Eng) [29] DL/77FEB471

RHEUMATOID ARTHRITIS

[GROWTH HORMONE DETERMINATIONS IN CHILDREN WITH RHEUMATOID ARTHRITIS AND STILL'S SYNDROME (PROCEEDINGS)] Butenandt O, Eder R, Clados-Kelch A *Z Rheumatol* 35 suppl 4: suppl 47-53, 1976 (Ger) DL/77FEB445

RHINOGENIC SEPSIS

[GANGRENE OF THE NASAL CONCHAS AND NASAL SEPTUM, RETROBULBAR ABSCESS AND RHINOGENIC SEPSIS IN A PATIENT WITH DIABETES MELLITUS] Sagalchik IaS *Zh Vyssh Nerv Deiat* 26: 100-1, Jun-Aug 76 (Rus) DL/77FEB442

RHODOTORULA GRACILIS GLUTININ

[TRANSPORT AND UTILIZATION OF ALDITOLS IN THE YEAST RHODOTORULA GRACILIS GLUTININ (AUTHORS TRANSL)] Kloppel R, Hofer M *Arch Microbiol* 107: 329-34, 1 Apr 76 (Ger) *DL/77FEB706

[TRANSPORT AND UTILIZATION OF ALDITOLS IN THE YEAST RHODOTORULA GRACILIS GLUTININ (AUTHORS TRANSL)] Kloppel R, Hofer M *Arch Microbiol* 107: 335-42, 1 Apr 76 (Ger) *DL/77FEB707

RHYTHM

[ANNUAL MORTALITY RHYTHM OF DIABETES MELLITUS (AUTHORS TRANSL)] Valsik JA, Stukovsky R *Bratisl Lek Listy* 65: 494-501, May 76 (Slo) DL/77FEB34

RIBONUCLEIC ACID

PARTIAL PURIFICATION AND CHARACTERIZATION OF THE MRNA FOR RAT PREPROINSULIN. Duguid JR, Steiner DF, Chick WL *Proc Natl Acad Sci USA* 73: 3539-43, Oct 76 (Eng) DL/77FEB359

RISK FACTOR

[DIABETES MELLITUS AS RISK FACTOR OF ISCHEMIC HEART DISEASE AND REFLECTED IN SERUM LIPID LEVELS.] Kusa O *Bratisl Lek Listy* 66: 28-37, 1 Jul 76 (Slo) DL/77FEB35

[HIGH RISK FACTORS OF BREAST CANCER] Hardy A, Loriaux C *J Gynecol Obstet Biol Reprod (Paris)* 5: 657-73, Jul - Aug 76 (Fre) [89] DL/77FEB177

PREOPERATIVE RISK FACTORS AND AORTA-CORONARY BYPASS GRAFT PATENCY.

SARCOPLASMIC RETICULUM

Blumlein SL, Anderson AJ, Barboriak JJ, Rimm AA, Walker J, Flemma R *J Thorac Cardiovasc Surg* 72: 778-83, Nov 76 (Eng) DL/77FEB234

SMOKING AND OTHER RISK FACTORS FOR CORONARY HEART-DISEASE IN BRITISH CIVIL SERVANTS. Reid DD, Hamilton PJ, McCartney P, Rose G, Jarrett RJ, Keen H *Lancet* 2: 979-84, 6 Nov 76 (Eng) DL/77FEB253

RITODRINE

THE EFFECT OF ORAL RITODRINE ON MATERNAL AND FETAL CARBOHYDRATE METABOLISM. Blouin D, Murray MA, Beard RW *Br J Obstet Gynaecol* 83: 711-5, Sep 76 (Eng) DL/77FEB8

ROENTGENOLOGY

[A STUDY OF ROENTGENOLOGIC AORTIC CALCIFICATION, GLUCOSE TOLERANCE, AND INSULIN SECRETORY RESPONSE (AUTHORS TRANSL)] Tanaka T, Seki A, Fujii J, Kuzuya N *Jpn Soc Intern Med* 65: 569-74, 10 Jun 76 (Jpn) DL/77FEB195

ROTATING CARRIER MECHANISM

AN EXPERIMENT ELIMINATING THE ROTATING CARRIER MECHANISM FOR THE ACTIVE TRANSPORT OF CA ION IN SARCOPLASMIC RETICULUM MEMBRANES. Dutton A, Rees ED, Singer SJ *Proc Natl Acad Sci USA* 73: 1532-6, May 76 (Eng) *DL/77FEB624

SACCHARIN

CANCER MORTALITY AND SACCHARIN CONSUMPTION IN DIABETICS. Armstrong B, Lea AJ, Adelstein AM, Donovan JW, White GC, Ruttle S *Br J Prev Soc Med* 30: 151-7, Sep 76 (Eng) DL/77FEB19

SACCHAROMYCES CEREVISIAE

GENETIC ANALYSIS OF PETITE MUTANTS OF SACCHAROMYCES CEREVISIAE: TRANS-MISSIONAL TYPES. Perlman PS *Genetics* 82: 645-63, Apr 76 (Eng) *DL/77FEB560

SALIVARY GLAND

SALIVARY GLAND GLUCAGON IN MAN AND ANIMALS. Lawrence AM, Tan S, Hojvat S, Kirsteins L, Mitton J *Metabolism* 25: 1405-8, Nov 76 (Eng) DL/77FEB284

DISCUSSION PAPER ON CHOLINERGIC REGULATION OF GLYCOGENOLYSIS AND PROTEIN SECRETION IN RAT SALIVARY GLANDS. PP. 295-6. Rossignol B, Herman G, Keryer G, Chambaut-Guerin AM, Ovtacht L, Busson S, Brown EM, Fedak SA, Woodward CJ, Aurbach GD *In Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract, Baltimore, Univ Park Press, 1976. W1 102 S859 1975. (Eng) *DL/77FEB585*

SANDOZ-46-034

THE EFFECTS OF MAZINDOL AND 46-034 (SANDOZ) ON GLUCOSE OXIDATION AND INSULIN BINDING BY RAT ISOLATED FAT CELLS. Harrison LC, King-Roach AP *Clin Exp Pharmacol Physiol* 3: 503-6, Sep-Oct 76 (Eng) DL/77FEB46

SARCOPLASMIC RETICULUM

ASSOCIATION OF GLYCOGENOLYSIS WITH CARDIAC SARCOPLASMIC RETICULUM. Entam ML, Kanike K, Goldstein MA, Nelson TE, Bornet EP, Futch TW, Schwartz A *J Biol Chem* 251: 3140-6, 25 May 76 (Eng) *DL/77FEB575

SCINTIGRAPHY

AN EXPERIMENT ELIMINATING THE ROTATING CARRIER MECHANISM FOR THE ACTIVE TRANSPORT OF CA ION IN SARCOPLASMIC RETICULUM MEMBRANES. Dutton A, Rees ED, Singer SJ *Proc Natl Acad Sci USA* 73: 1532-6, May 76 (Eng) *DL/77FEB624

SCINTIGRAPHY

[SCINTIGRAPHY OF THE PANCREAS IN INSULOMA] Romanova A, Zografski A, Kaneti Ia *Vutr Boles* 14: 123-7, 1975 (Bul) *DL/77FEB682

SCREENING METHOD

[CLINICAL PROBLEMS OF PREMATURE LABOR. 1. DIAGNOSIS OF THREATENING PREMATURE LABOR AND THE SCREENING PROCEDURE] Bayer H, Issel EP, Agricola H, Roigas E *Zentralbl Gynaekol* 98: 1025-34, 1976 (Ger) DL/77FEB447

SEA ANEMONE

A POLYPEPTIDE (AP-A) FROM SEA ANEMONE (ANTHOPLEURA XANTHOGRAMMICA) WITH POTENT POSITIVE INOTROPIC ACTION. Shibata S, Norton TR, Izumi T, Matsuo T, Katsuki S *J Pharmacol Exp Ther* 199: 298-309, Nov 76 (Eng) DL/77FEB210

SECRETIN

EFFECT OF SECRETIN ON PACEMAKER ACTIVITY AND CONTRACTILITY IN THE ISOLATED BLOOD-PERFUSED ATRIUM OF THE DOG. Chiba S *Clin Exp Pharmacol Physiol* 3: 167-72, Mar-Apr 76 (Eng) DL/77FEB45

RAT GASTRIC MUCOSAL OXYGEN TENSION, ULCER INDEX, PLASMA GASTRIN AND GLUCAGON FOLLOWING RESTRAINT STRESS. INFLUENCE OF VAGOTOMY, SPALANCHNICOTOMY AND EXOGENOUS SECRETIN. Schwille PO, Schellerer W, Steiner H, Reitzstein M *Res Exp Med (Berl)* 167: 149-58, 15 May 76 (Eng) DL/77FEB375

EFFECTS OF SOMATOSTATIN ON PANCREATIC EXOCRINE FUNCTION. INTERACTION WITH SECRETIN. Deschodt-Lanckman M, Robberecht P, Pector JC, Christophe J *Arch Int Physiol Biochim* 83: 960-1, Dec 75 (Eng) *DL/77FEB705

SECRETION

CONTROL OF PANCREATIC IRG SECRETION IN VIVO. Gerich JE *Metabolism* 25: 1437-41, Nov 76 (Eng) [13] DL/77FEB292

SERUM INSULIN SECRETION BY ADULT MALAYSIANS. Jones JJ, Aimal PP, Owyong LY, Kuty MK *Med J Malaysia* 30: 285-6, Jun 76 (Eng) DL/77FEB318

METABOLIC REQUIREMENTS FOR MELANOPHORE-STIMULATING HORMONE (MSH) SECRETION. Hadley ME, Bower SA *Gen Comp Endocrinol* 28: 118-30, Feb 76 (Eng) *DL/77FEB558

INFLUENCE OF CHRONIC THYROTROPIN-RELEASING HORMONE INJECTIONS ON SECRETION OF PROLACTIN, THYROTROPIN AND GROWTH HORMONE AND ON GROWTH RATE IN WETHER LAMBS. Davis SL, Hill DM, Ohlson DL, Jacobs JA *J Anim Sci* 42: 1244-50, May 76 (Eng) *DL/77FEB566

REGULATION OF SECRETION FROM THE ADRENAL MEDULLA. EVIDENCE FOR ADENYLATE CYCLASE ACTIVITY IN SECRETORY VESICLE MEMBRANES. Zinder O, Nikolicjevic O, Hoffman PG, Pollard HB *J Biol Chem* 241: 2179-81, 10 Apr 76 (Eng) *DL/77FEB569

CONTROL OF ANTERIOR PITUITARY HORMONE SECRETION. HYPOTHALAMIC PEPTIDES AND THEIR INTERACTIONS. PP. 180-95. Grant G, Vale W, Brazeau P, Rivier J, Monahan M, Gilon C, Amoss M, Rivier C, Ling N, Burgus R, Guillemin R *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function. Basel, Karger, 1974. WL 312 165r 1973. (Eng) [39] *DL/77FEB588*

SECRETION, ANTERIOR PITUITARY

LETTER: EFFECT OF ALCOHOL ON ANTERIOR-PITUITARY SECRETION OF TROPIC HORMONES. Ylikahri RH, Huttunen MO, Harkonen M *Lancet* 1: 1353, 19 Jun 76 (Eng) *DL/77FEB608

SECRETION, GASTRIC

EFFECT OF THE HISTAMINE H2-RECEPTOR ANTAGONIST, CIMETIDINE, ON GASTRIC SECRETION AND SERUM GASTRIN DURING INSULIN INFUSION IN MAN. Carter DC, Forrest JA, Logan RA, Ansell I, Lidgard G, Heading RC, Shearman DJ *Scand J Gastroenterol* 11: 565-70, 1976 (Eng) DL/77FEB393

SECRETION, GLUCAGON

INFLUENCE OF METFORMIN ON ARGININE-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ *Diabete Metab* 1: 23-8, Mar 75 (Eng) DL/77FEB84

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteceuvre M, Buneaux JJ *Diabete Metab* 1: 101-11, Jun 75 (Eng) DL/77FEB91

CONTROL OF GLUCAGON SECRETION BY NUTRIENTS IN VITRO. Matschinsky FM, Pagliara AS *Metabolism* 25: 1435-6, Nov 76 (Eng) DL/77FEB291

CENTRAL NERVOUS SYSTEM-MEDIATED STIMULATION OF GLUCAGON SECRETION IN THE DOG FOLLOWING 2-DEOXYGLUCOSE. Frohman LA, Nagai K *Metabolism* 25: 1449-52, Nov 76 (Eng) DL/77FEB295

GASTRIC GLUCAGON SECRETION. Blazquez E, Munoz-Barragan L, Patton GS, Dobbs R, Unger RH *Metabolism* 25: 1475-6, Nov 76 (Eng) DL/77FEB303

REGULATION OF GLUCAGON SECRETION OF THE DIABETIC PANCREAS IN VITRO [PROCEEDINGS]. Matschinsky FM, Pagliara AS *Metabolism* 25: 1517, Nov 76 (Eng) DL/77FEB313

GLUCAGON SECRETION FROM THE PERFUSED RAT PANCREAS FOLLOWING ACUTE AND CHRONIC STREPTOZOTOCIN. Weir GC, Atkins RF, Martin DB *Metabolism* 25: 1519-21, Nov 76 (Eng) DL/77FEB314

SECRETION, GROWTH HORMONE

NEUROENDOCRINE CONTROL OF GROWTH HORMONE SECRETION: EXPERIMENTAL AND CLINICAL STUDIES. PP. 236-51. Luzzi A, Panerai AE, Chiodini PG, Secchi C, Cocchi D, Botalla L, Silvestrini F, Muller EE *Ino Picelle A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB185*

DIET-INDUCED ALTERATIONS OF HIGH SECRETION IN MAN. Merimee TJ, Pulkkinen AJ, Burton CE *J Clin Endocrinol Metab* 62: 931-7, May 76 (Eng) *DL/77FEB578

DOPAMINE AND INHIBITION OF PROLACTIN AND GROWTH-HORMONE SECRETION. Massara F, Camanni F, Belforte L, Molinatti GM *Lancet* 1: 913, 24 Apr 76 (Eng) *DL/77FEB606

SECRETION, INSULIN

KINETICS OF INSULIN SECRETION IN CHRONIC PANCREATITIS AND MILD MATURITY ONSET DIABETES. (EVIDENCE FOR GUT HORMONE ACTION BEYOND GLUCORECEPTOR AND CYCLIC ADENOSINE MONOPHOSPHATE MEDIATED INSULIN RELEASE). Botha JL, Vinik AI, Blake KC, Jackson WP *Eur J Clin Invest* 6: 365-72, 10 Sep 76 (Eng) DL/77FEB72

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL)] Leclercq-Meyer V, Malaisse WJ *Diabete Metab* 1: 119-22, Jun 75 (Fre) DL/77FEB93

FEED-BACK INHIBITION OF INSULIN SECRETION IN SUBJECTS WITH HIGH AND LOW INSULIN RESPONSE TO GLUCOSE. Cerasi E *Diabete Metab* 1: 73-6, Jun 75 (Eng) DL/77FEB94

INSULIN SECRETION AND BIOSYNTHESIS IN SUCROSE FED RATS. Laube H, Schatz H, Nierle C, Fussganger R, Pfeiffer EF *Diabetologia* 12: 441-6, Oct 76 (Eng) DL/77FEB112

THE INHIBITION OF INSULIN SECRETION FROM THE PERFUSED RAT PANCREAS AFTER THYROIDINE TREATMENT. Lenzen S, Joost HG, Hasselblatt A *Diabetologia* 12: 495-500, Oct 76 (Eng) DL/77FEB118

EVIDENCE FOR A HYPOTHYSEAL FACTOR THAT STIMULATES INSULIN SECRETION BY THE PANCREAS (INSULOTROPINE). Chieri RA, Basabe JC, Farina JM *Horm Metab Res* 8: 329-32, Sep 76 (Eng) DL/77FEB137

IONOPHORE A23187-INDUCED INSULIN SECRETION IN THE ISOLATED, PERFUSED DOG PANCREAS. Conaway HH, Griffey MA, Marks SR, Whitney JE *Horm Metab Res* 8: 351-3, Sep 76 (Eng) DL/77FEB140

GROWTH HORMONE AND INSULIN SECRETION. PP. 116-26. Bennett LL, Curry DL, Picelle A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB180

INSULIN SECRETION IN MIGRAINE: INFLUENCE ON THE BLOOD LEVELS OF TRYPTOPHAN. Poloni M, Nappi G, Bono G, Roggi C, Arpesella M, Virgilio P *Monogr Neurol Sci* 3: 67-70, 1976 (Eng) DL/77FEB322

EFFECT OF HEPARIN ON INSULIN SECRETION IN VIVO AND IN VITRO. Orosz L *Res Exp Med (Berl)* 167: 239-54, 2 Jul 76 (Eng) DL/77FEB377

[MODIFICATION OF INSULIN-SECRETION INDUCED BY GLUCOSE, OF THE ISOLATION-PERFUSED RAT PANCREAS USING TOLBUTAMIDE, GLUCOSAMINE, DIAZOLIDE, GLUCAGON AND ENDOGENOUS INSULIN] Bierwolf B, Blech W *Acta Biol Med Ger* 583-95, 1976 (Ger) DL/77FEB450

STUDIES WITH THE AUTOTRANSPLANTED OVINE PANCREAS: GLUCAGON AND INSULIN SECRETION. Arcus AC, Ellis MJ, Kirk RD, Beaven DW, Donald RA, Hart DS, Holland GW, Redekopp C *Aust J Biol Sci* 29: 223-36, Jul 76 (Eng) DL/77FEB496

SECRETION, PANCREATIC

[PANCREATIC SECRETION IN RATS. A COMPARATIVE STUDY OF BASAL AND STIMULATED SECRETIONS IN ACUTE AND CHRONIC FISTULA CONDITIONS (AUTHORS TRANSL)]. Chariot J, Roze C, La Tour J, Souchart M, Vaillat C, Debray C *Pathol Biol (Paris)* 24: 457-61, Sep 76 (Fre) DL/77FEB336

SECRETION, PROLACTIN

CONTROL OF GONADOTROPIN AND PROLACTIN SECRETION BY HYPOTHALAMIC RELEASING AND INHIBITING HORMONES. PP. 80-9. McCann SM, Cooper K, Harms PG, Libertun C, Negro-Vilar A, Ojeda SR, Orian R, Moss RL, Fawcett CP, Krulich L, Gilon C, Amoss M, Rivier C, Ling N, Burgus R, Guillemin R In: *Lederis K, Cooper KE, ed. Recent studies of hypothalamic function. Basel, Karger, 1974. WL 312 165r 1973. (Eng) *DL/77FEB589*

SECRETION, PROTEIN

DISCUSSION PAPER ON CHOLINERGIC REGULATION OF GLYCOGENOLYSIS AND PROTEIN SECRETION IN RAT SALIVARY GLANDS. PP. 295-6. Rossignol B, Herman G, Keryer G, Chambaut-Guerin AM, Ovtacht L, Busson S, Brown EM, Fedak SA, Woodard CJ, Aurbach GD In: *Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract. Baltimore, Univ Park Press, 1976. W1 102 S859 1975. (Eng) *DL/77FEB585*

SECRETORY FUNCTION

PROGRESSIVE ENHANCEMENT IN THE SECRETORY FUNCTIONS OF THE DIGESTIVE SYSTEM OF THE RAT IN THE COURSE OF COLD ACCLIMATION. Harada E, Kanno T J *Physiol (Lond)* 260: 629-45, Sep 76 (Eng) DL/77FEB211

EFFECTS OF GROWTH HORMONE-RELEASE INHIBITING HORMONE (GH-RIH OR SOMATOSTATIN) ON SECRETORY PROCESSES IN STOMACH AND PANCREAS. PP. 407-12. Albinus M, Case RM, Reed JD, Shaw B, Smith PA, Gomez-Pan A, Hall R, Besser GM, Schally AV In: *Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract. Baltimore, Univ Park Press, 1976. W1 102 S859 1975. (Eng) *DL/77FEB586*

SECRETORY, INSULIN

[A STUDY OF ROENTGENOLOGIC AORTIC CALCIFICATION, GLUCOSE TOLERANCE, AND INSULIN SECRETORY RESPONSE (AUTHORS TRANSL)] Tanaka T, Seki A, Fujii J, Kuzuya N J *Jpn Soc Intern Med* 65: 569-74, 10 Jun 76 (Jpn) DL/77FEB195

SECRETORY VESICLE

REGULATION OF SECRETION FROM THE ADRENAL MEDULLA. EVIDENCE FOR ADENYLATE CYCLASE ACTIVITY IN SECRETORY VESICLE MEMBRANES. Zinder O, Nikoijevic O, Hoffman PG, Pollard HB J *Biol Chem* 241: 2179-81, 10 Apr 76 (Eng) *DL/77FEB569

SECTION

MORPHOMETRIC METHOD TO ESTIMATE THE PARAMETERS OF DISTRIBUTION FUNCTIONS ASSUMED FOR SPHERICAL BODIES FROM MEASUREMENTS ON A RANDOM SECTION. Suwa N, Takahashi T, Saito K, Sawai T *Tohoku J Exp Med* 118: 101-11, Feb 76 (Eng) DL/77FEB413

SEMISTARVATION

THE MECHANISM OF HYPOGLYCEMIA DUE TO SEMISTARVATION IN THE RAT. Cacs C J *Nutr* 106: 1557-61, Nov 76 (Eng) DL/77FEB202

SEMISYNTHETIC GLUCAGON

SEMISYNTHETIC GLUCAGON DERIVATIVES FOR STRUCTURE-FUNCTION STUDIES. Hruby VJ, Wright DE, Lin MC, Rodbell M *Metabolism* 25: 1323-5, Nov 76 (Eng) DL/77FEB266

SENESCENCE

[PROBLEMS IN GLYCOREGULATION AND SENESCENCE] Gommers A, Jeanjean M, Dehez-Delhay M *Probl Actuels Endocrinol Nutr serie 17*: 193-207, 1973 (Fre) DL/77FEB357

INSECT FLIGHT MUSCLE: MATURATION AND SENESCENCE. Baker GT 3rd *Gerontology* 22: 334-61, 1976 (Eng) *DL/77FEB561

SEPSIS

IMPAIRED GLUCOSE FLOW IN BURNED PATIENTS WITH GRAM-NEGATIVE SEPSIS. Wilmore DW, Mason AD Jr, Pruitt BA Jr *Surg Gynecol Obstet* 143: 720-4, Nov 76 (Eng) DL/77FEB408

[ANGRENE OF THE NASAL CONCHAS AND NASAL SEPTUM, RETROBULBAR ABSCESS AND RHINOGENIC SEPSIS IN A PATIENT WITH DIABETES MELLITUS] Sagalchik IaS Zh *Vyssh Nerv Delat* 26: 100-1, Jun-Aug 76 (Rus) DL/77FEB442

SEPTIC

ENERGY METABOLISM AND PROTEOLYSIS IN TRAUMATIZED AND SEPTIC MAN. Clowes GH Jr, O'Donnell TF, Blackburn GL, Maki TN *Surg Clin North Am* 56: 1169-84, Oct 76 (Eng) [53] DL/77FEB406

SERINE

THE EVOLUTIONARY ORIGIN OF PROINSULIN. AMINO ACID SEQUENCE HOMOLOGY WITH THE TRYPSIN-RELATED SERINE PROTEASES DETECTED AND EVALUATED BY NEW STATISTICAL METHODS. de Haen C, Swanson E, Teller DC J *Mol Biol* 106: 639-61, 25 Sep 76 (Eng) DL/77FEB215

SEROMUCOID

THE LEVEL AND COMPOSITION OF SEROMUCOID AND NONDIALYSABLE SERUM SUGAR-PEPTIDE FRACTION COMPARED WITH THE ACTIVITY OF GALACTOSYL TRANSFERASE (EC 2.4.1.38) OF LIVER GOLGI MEMBRANES IN INSULIN-TREATED RATS. Guzdek A, Kordowiak A, Sarnecka-Keller M *Clin Chim Acta* 72: 393-9, 1 Nov 76 (Eng) DL/77FEB43

THE INFLUENCE OF INSULIN ON THE PROPORTION OF NEUTRAL SUGARS IN SEROMUCOID OF DIABETIC PATIENTS. Guzdek A, Ciba T, Sarnecka-Keller M *Clin Chim Acta* 72: 401-4, 1 Nov 76 (Eng) DL/77FEB44

SEROSAL

MUSCULAR AND SEROSAL EFFECTS OF INSULIN ON ION CONTENTS OF THE FROG URINARY BLADDER. Janacek K, Rybova R, Slavikova M *Physiol Bohemoslov* 25: 385-7, 1976 (Eng) DL/77FEB367

SEROTONINERGIC

SEROTONINERGIC CONTROL OF HUMAN GROWTH HORMONE SECRETION: THE ACTIONS OF L-DOPA AND 2-BROMO-ALPHA-ERGOCRYPTINE. PP. 222-35. Smythe GA, Compton PJ, Lazarus L In: *Pecile A, Muller EE, ed. Growth hormone and related peptides. Amster-*

dam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB189

SERUM

THE LEVEL AND COMPOSITION OF SEROMUCOID AND NONDIALYSABLE SERUM SUGAR-PEPTIDE FRACTION COMPARED WITH THE ACTIVITY OF GALACTOSYL TRANSFERASE (EC 2.4.1.38) OF LIVER GOLGI MEMBRANES IN INSULIN-TREATED RATS. Guzdek A, Kordowiak A, Sarnecka-Keller M *Clin Chim Acta* 72: 393-9, 1 Nov 76 (Eng) DL/77FEB43

CLINICAL CORRELATIONS OF SERUM PROINSULIN-LIKE MATERIAL IN ISLET CELL TUMOURS. Alsever RN, Stjernholm MR, Sussman KE, Mako ME, Rubenstein AH *Diabetologia* 12: 527-30, Oct 76 (Eng) DL/77FEB123

STUDIES OF HUMAN DIPLOID FIBROBLAST GROWTH. I. RESPONSES OF NORMAL AND HYPOTRYPIC CELLS TO FIBROBLAST GROWTH FACTOR, INSULIN, AND SERUM. Jones KL, Addison JJ *Clin Endocrinol Metab* 43: 721-9, Oct 76 (Eng) DL/77FEB166

HIGH-PRESSURE LIQUID CHROMATOGRAPHIC ANALYSIS OF TOLBUTAMIDE IN SERUM. Weber DJ J *Pharm Sci* 65: 1502-5, Oct 76 (Eng) DL/77FEB209

[BEHAVIOUR OF SERUM CONCENTRATIONS OF GLUCOSE, IMMUNOREACTIVE INSULIN AND POTASSIUM IONS IN NEWBORNS AFTER LONG TERM OR CRASH TREATMENTS WITH PARTUSISTEN OR PARTUSISTEN IN COMBINATION WITH ISOPTIN (AUTHORS TRANSL)] Weidinger H, Mohr D, Haller K, Hiltmann WD, Vogel M Z *Geburtshilfe Perinatol* 180: 258-65, Aug 76 (Ger) DL/77FEB439

[THE BEHAVIOR OF LIPOPROTEINS, CHOLESTEROL, TRIGLYCERIDES, FREE FATTY ACIDS AND FREE GLYCEROL IN SERUM OF RATS WITH EXPERIMENTAL HYPERTHYROIDISM AND HYPOTHYROIDISM] Hubner G, Renner K, Rauer G *Endokrinologie* 67: 60-6, Mar 67 (Ger) *DL/77FEB548

SERUM GASTRIN

EFFECT OF THE HISTAMINE H2-RECEPTOR ANTAGONIST, CIMETIDINE, ON GASTRIC SECRETION AND SERUM GASTRIN DURING INSULIN INFUSION IN MAN. Carter DC, Forrest JA, Logan RA, Ansell I, Lidgard G, Heading RC, Shearman DJ *Scand J Gastroenterol* 11: 565-70, 1976 (Eng) DL/77FEB393

SERUM INSULIN

SERUM LIPID CHANGES DURING CONTRACEPTIVE ADMINISTRATION IN OBESE WOMEN: RELATION TO SERUM INSULIN LEVELS. Gershberg H, Hulse M, Galler M J *Clin Endocrinol Metab* 43: 861-5, Oct 76 (Eng) DL/77FEB168

SERUM INSULIN SECRETION BY ADULT MALAYSIANS. Jones JJ, Aimalt PP, Owyong LY, Kuttu MK *Med J Malaysia* 30: 285-6, Jun 76 (Eng) DL/77FEB318

SERUM LIPID

[DIABETES MELLITUS AS RISK FACTOR OF ISCHEMIC HEART DISEASE AND REFLECTED IN SERUM LIPID LEVELS.] Kusa O *Bratisl Lek Listy* 66: 28-37, 1 Jul 76 (Slo) DL/77FEB35

SERUM LIPID CHANGES DURING CONTRACEPTIVE ADMINISTRATION IN OBESE WOMEN: RELATION TO SERUM INSULIN

SERUM POTASSIUM

LEVELS. Gershberg H, Hulse M, Galler M *J Clin Endocrinol Metab* 43: 861-5, Oct 76 (Eng) DL/77FEB168

SERUM POTASSIUM

THYROTOXIC PERIODIC PARALYSIS: A PECULIAR CASE WITH UNUSUAL DYSTONIC BEHAVIOR AND VARIABLE RELATIONS OF PARALYSIS TO SERUM POTASSIUM LEVELS. Kusakabe T, Yoshida M, Nishikawa M *J Clin Endocrinol Metab* 43: 730-40, Oct 76 (Eng) DL/77FEB167

SERUM SOMATOMEDIN

ACUTE AND CHRONIC ESTROGEN EFFECTS UPON SERUM SOMATOMEDIN ACTIVITY, GROWTH HORMONE, AND PROLACTIN IN MAN. Wiedemann E, Schwartz E, Frantz AG *J Clin Endocrinol Metab* 42: 942-52, May 76 (Eng) *DL/77FEB577

SERUM TRIGLYCERIDE

SERUM TRIGLYCERIDES AND FATTY ACID INCORPORATION INTO HUMAN ADIPOSE TISSUE (TIAT). THEIR RELATIONS WITH ADIPOSE TISSUE CHARACTERISTICS AND GLUCOSE TOLERANCE. Walldius G *Acta Med Scand* 200: 409-21, 1976 (Eng) DL/77FEB460

SHOCK, CARDIOGENIC

MYOCARDIAL METABOLISM IN EXPERIMENTAL CARDIOGENIC SHOCK. Cronin RF, Zsoter T, Hollenberg CH *Recent Adv Stud Cardiac Struct Metab* 1: 95-100, 1972 (Eng) *DL/77FEB656

SKELETAL MUSCLE

STUDIES WITH FLUTIOREX, A NEW ANORECTIC DRUG, ON GLUCOSE UPTAKE INTO HUMAN ISOLATED SKELETAL MUSCLE. Kirby MJ, Carageorgiou-Marikouhalakis H, Turner P *Br J Clin Pharmacol* 2: 541-2, Dec 75 (Eng) DL/77FEB6

DECAY OF SUCCINATE DEHYDROGENASE ACTIVITY IN RAT SKELETAL MUSCLE FOLLOWING STREPTOZOTOCIN INJECTION. Armstrong RB, Iannuzzo CD *Horm Metab Res* 8: 392-4, Sep 76 (Eng) DL/77FEB146

GLUCOSE METABOLISM IN PERFUSED SKELETAL MUSCLE. EFFECTS OF STARVATION, DIABETES, FATTY ACIDS, ACETOACETATE, INSULIN AND EXERCISE ON GLUCOSE UPTAKE AND DISPOSITION. Berger M, Hagg SA, Goodman MN, Ruderman NB *Biochem J* 158: 191-202, 15 Aug 76 (Eng) DL/77FEB504

SKELETAL RADIOGRAPHY

COMPARISON OF NON-SCREEN TECHNIQUES (MEDICAL VS. INDUSTRIAL FILM) FOR FINE-DETAIL SKELETAL RADIOGRAPHY. Genant HK, Doi K, Mall JC *Invest Radiol* 11: 486-500, SEP-OCT 76 (Eng) DL/77FEB151

SMALL INTESTINE

INSULIN RESISTANCE AND RELATED ELECTRICAL ACTIVITY OF THE SMALL INTESTINE. Ruckebusch M, Weekes TE *Experientia* 32: 1163-5, 15 Sep 76 (Eng) DL/77FEB76

EFFECT OF CHRONIC GLUCAGON-ADMINISTRATION ON THE DIGESTIVE AND ABSORPTIVE FUNCTION OF RAT SMALL INTESTINE IN VIVO. Caspary WF, Lucke H *Res Exp Med (Berl)* 167: 1-13, 27 Feb 76 (Eng) DL/77FEB373

EFFECT OF ETHYL ACETATE ON THE TRANSPORT OF SODIUM AND GLUCOSE IN THE HAMSTER SMALL INTESTINE IN VITRO. Esposito G, Faelli A, Capraro V *Biochim Biophys Acta* 426: 489-98, 19 Mar 76 (Eng) *DL/77FEB520

EFFECTS OF NA& DEPLETION, THEOPHYLLINE AND 2,4-DINITROPHENOL ON NEUTRAL AMINO ACID INFLUX AND CYCLIC ADENOSINE 3:5-MONOPHOSPHATE LEVELS IN CHICKEN SMALL INTESTINE. Burrill PH, Sattelmeyer PA, Lerner J *Comp Biochem Physiol [C]* 53: 95-9, 1976 (Eng) *DL/77FEB543

[STRUCTURAL AND FUNCTIONAL CHANGES IN THE SMALL INTESTINE IN PERITONITIS] Popov VA *Patol Fiziol Eksp Ter* 32-7, Jan-Feb 76 (Rus) *DL/77FEB619

SMALL LEFT COLON SYNDROME

[THE SMALL LEFT COLON SYNDROME. 3 CASES] Neuenschwander S, Montagne JP, Boudou A, Bouron D, Mougenot JF, Gruner M, Faure C *Nouv Presse Med* 6: 2311-4, 23 Oct 76 (Fre) DL/77FEB346

SMOKING

SMOKING AND OTHER RISK FACTORS FOR CORONARY HEART-DISEASE IN BRITISH CIVIL SERVANTS. Reid DD, Hamilton PJ, McCartney P, Rose G, Jarrett RJ, Keen H *Lancet* 2: 979-84, 6 Nov 76 (Eng) DL/77FEB253

SODIUM CHANNEL

[RECONSTRUCTION OF A SINGLE CELLULAR POTASSIUM-SODIUM CHANNEL IN A LIPID BILAYER] Aleksandrov AA, Berestovskii GN, Volkova SP, Vostrikov Ila, Zherelova OM *Dokl Akad Nauk SSSR* 227: 723-6, 21 Mar 76 (Rus) *DL/77FEB545

SODIUM ION

EFFECTS OF NA& DEPLETION, THEOPHYLLINE AND 2,4-DINITROPHENOL ON NEUTRAL AMINO ACID INFLUX AND CYCLIC ADENOSINE 3:5-MONOPHOSPHATE LEVELS IN CHICKEN SMALL INTESTINE. Burrill PH, Sattelmeyer PA, Lerner J *Comp Biochem Physiol [C]* 53: 95-9, 1976 (Eng) *DL/77FEB543

SODIUM TRANSPORT

EFFECT OF ETHYL ACETATE ON THE TRANSPORT OF SODIUM AND GLUCOSE IN THE HAMSTER SMALL INTESTINE IN VITRO. Esposito G, Faelli A, Capraro V *Biochim Biophys Acta* 426: 489-98, 19 Mar 76 (Eng) *DL/77FEB520

SOMATOMEDIN

REGULATION OF SOMATOMEDIN GENERATION. PP. 169-77. Daughaday WH, Phillips LS, Herington AC *In: Peelle A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB188*

SOMATOMEDIN, PLASMA

PLASMA SOMATOMEDIN. CLINICAL OBSERVATIONS. PP. 271-85. Van den Brande JL *In: Peelle A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) [81] DL/77FEB186*

SOMATOMEDIN, SERUM

ACUTE AND CHRONIC ESTROGEN EFFECTS UPON SERUM SOMATOMEDIN ACTIVITY, GROWTH HORMONE, AND PROLACTIN IN MAN. Wiedemann E, Schwartz E, Frantz AG *J Clin Endocrinol Metab* 42: 942-52, May 76 (Eng) *DL/77FEB577

SOMATOSTATIN

SOMATOSTATIN AND INSULIN RELEASE FROM ISOLATED RAT PANCREATIC ISLETS STIMULATED BY GLUCOSE. Schauder P, McIntosh C, Arends J, Arnold R, Frerichs H, Creutzfeldt W *FEBs Lett* 68: 225-7, 1 Oct 76 (Eng) DL/77FEB79

EFFECT OF SOMATOSTATIN ON METABOLIC AND HORMONAL CHANGES INDUCED BY NICOTINIC ACID IN INSULIN-DEPENDENT DIABETICS. Luyckx AS, Lefebvre P *Diabetologia* 12: 447-53, Oct 76 (Eng) DL/77FEB113

SOMATOSTATIN, A HORMONE OF THE ALPHA 1-CELLS OF THE PANCREATIC ISLETS AND ITS INFLUENCE ON THE SECRETION OF INSULIN AND GLUCAGON. PP. 216-21. Efendic S, Hokfelt T, Luft R *In: Peelle A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB190*

ELEVATED GUT GLUCAGON-LIKE IMMUNOREACTIVE MATERIAL IN HUMAN AND EXPERIMENTAL DIABETES AND ITS SUPPRESSION BY SOMATOSTATIN. Wider MD, Matsuyama T, Dunbar JC, Foa PP *Metabolism* 25: 1487-9, Nov 76 (Eng) DL/77FEB306

REMARKABLE POTENCY OF SOMATOSTATIN AS A GLUCAGON SUPPRESSANT. Samols E, Harrison J *Metabolism* 25: 1495-7, Nov 76 (Eng) DL/77FEB307

METABOLIC EFFECTS OF LONG-TERM SOMATOSTATIN INFUSION IN MAN. Gerich JE *Metabolism* 25: 1505-7, Nov 76 (Eng) DL/77FEB310

SOMATOSTATIN AND DIABETES: SUPPRESSION OF GLUCOSE ABSORPTION RATHER THAN STIMULATION OF GLUCOSE DISPOSAL. Felig P, Wahren J *Metabolism* 25: 1509-10, Nov 76 (Eng) DL/77FEB311

INHIBITION OF THE GLUCOSE INDUCED INSULIN RELEASE BY SOMATOSTATIN IN THE ISOLATED PERFUSED RAT PANCREAS. ACTION OF CYCLIC AMP, GLUCAGON AND GLIBENCLAMIDE. Osorio J, Campillo JE, de los Arcos JG, Pages I, Rodriguez E, Marasco M, Melani F *Rev Esp Fisiol* 32: 211-6, Sep 76 (Eng) DL/77FEB372

EFFECTS OF GROWTH HORMONE-RELEASE INHIBITING HORMONE (GH-RH OR SOMATOSTATIN) ON SECRETORY PROCESSES IN STOMACH AND PANCREAS. PP. 407-12. Albinus M, Case RM, Reed JB, Shaw B, Smith PA, Gomez-Pan A, Hall R, Beser GM, Schally AV *In: Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract. Baltimore, Univ Park Press, 1976. W1 [C] S859 1975. (Eng) *DL/77FEB586*

EFFECTS OF SOMATOSTATIN ON PANCREATIC EXOCRINE FUNCTION. INTERACTION WITH SECRETIN. Deschodt-Lanckman M, Robberecht P, Pector JC, Christophe J *In: Int Physiol Biochem* 83: 960-1, Dec 75 (Eng) *DL/77FEB705

SOMATOSTATIN ANALOGUE

SOMATOSTATIN ANALOGS WITH SELECTED BIOLOGIC ACTIVITIES. Brown M, Rivier J *Vale W Metabolism* 25: 1501-3, Nov 76 (Eng) DL/77FEB309

Diabetes Literature—Keyword Index

SOMATOSTATIN CELL

SEPARATE AUTOANTIBODIES TO HUMAN PANCREATIC GLUCAGON AND SOMATOSTATIN CELLS. Bottazzo GF, Lendrum R. *Lancet* 2: 873-6, 23 Oct 76 (Eng) DL/77FEB244

SOMATOSTATIN, IMMUNOREACTIVE

STIMULATION OF PANCREATIC IMMUNOREACTIVE SOMATOSTATIN (IRS) RELEASE BY GLUCAGON [PROCEEDINGS]. Patton GS, Dobbs R, Orci L, Vale W, Unger RH. *Metabolism* 25: 1499, Nov 76 (Eng) DL/77FEB308

SOMATOTROPIC CELL

QUANTITATIVE EVALUATION OF SOMATOTROPIC CELLS (SC) IN THE ADENOHYPHYSIS OF NORMAL AND DIABETIC MALE CHINESE HAMSTERS. Deslex P, Rossi GL. *Diabetologia* 12: 489-93, Oct 76 (Eng) DL/77FEB117

SOMATOTROPIC HORMONE

[RADIOIMMUNOLOGIC DETERMINATION OF STH, INSULIN, AND C-PEPTIDE. INDICATION, FUNCTIONAL TESTS, INTERPRETATION OF THE FINDINGS] Schroder KE, Raptis S, Beischer W. *Med Welt* 27: 1720-5, 10 Sep 76 (Ger) DL/77FEB257

KINETICS OF PROTEIN SYNTHESIS AND RELEASE IN THE STH-CELL OF THE MOUSE ANTERIOR PITUITARY AS REVEALED BY ELECTRON MICROSCOPIC AUTORADIOGRAPHY OF 3H-AMINO ACIDS. Hiura M, Komatsu M, Fujita H. *Arch Histol Jpn* 38: 347-57, Feb 76 (Eng) *DL/77FEB709

SOMATOTROPIN

EFFECT OF SOMATOTROPIN UPON A FRESH-WATER FISH, CHANNA PUNCTATUS (BLOCH). Gill TS. *Anat Anz* 140: 199-201, 1976 (Eng) DL/77FEB485

SOMATOTROPIN, HUMAN CHORIONIC

PLASMA CONCENTRATIONS OF UNCONJUGATED ESTRONE, ESTRADIOL-17BETA AND ESTRIOL, AND HCS THROUGHOUT PREGNANCY IN DIABETICS AND GESTATIONAL DIABETICS. De Hertogh R, Thomas K, Hoet JJ, Vanderheyden I. *Diabetologia* 12: 455-61, Oct 76 (Eng) DL/77FEB114

SPECIES DIFFERENCE

SPECIES VARIATIONS IN THE PRIMARY STRUCTURE OF GLUCAGON. Sundby F. *Metabolism* 25: 1319-21, Nov 76 (Eng) DL/77FEB265

DOMINANT INHERITANCE OF LARGE MOLECULAR WEIGHT SPECIES OF GLUCAGON. Ensink JW, Palmer JP. *Metabolism* 25: 1409-11, Nov 76 (Eng) DL/77FEB285

THE BABOON IN ATHEROSCLEROSIS RESEARCH: COMPARISON WITH OTHER SPECIES AND USE IN TESTING DRUGS AFFECTING LIPID METABOLISM. Howard AN. *Adv Exp Med Biol* 67: 77-87, 1976 (Eng) *DL/77FEB698

SPECTROSCOPY

[SPECTROSCOPIC STUDIES ON THE SELF-ASSOCIATION MECHANISM OF BIOMEMBRANE LIPID COMPONENTS AND THEIR INTERACTION WITH WATER AND ALCOHOLS IN A NON-POLAR MEDIUM] Koval

VH Ukr Biokhim Zh 47: 505-9, Jul-Aug 75 (Ukr) *DL/77FEB681

SPECTRUM

FIELD DESORPTION MASS SPECTRUM OF GLUCAGON. Winkler HU, Beuhler RJ, Friedman L. *Biomed Mass Spectrom* 3: 201-6, Oct 76 (Eng) DL/77FEB15

SPHERICAL BODY

MORPHOMETRIC METHOD TO ESTIMATE THE PARAMETERS OF DISTRIBUTION FUNCTIONS ASSUMED FOR SPHERICAL BODIES FROM MEASUREMENTS ON A RANDOM SECTION. Suwa N, Takahashi T, Saito K, Sawai T. *Tohoku J Exp Med* 118: 101-11, Feb 76 (Eng) DL/77FEB413

SPINY MOUSE

PROINSULIN SYNTHESIS IN ISLETS OF LANGERHANS FROM SPINY MICE (ACOMYS CAHIRINUS). COMPARISON WITH RATS AND MICE. Trueheart PA, Maldonado A, Kaelin D, Renold AE, Sharp GW. *Diabetologia* 12: 463-70, Oct 76 (Eng) DL/77FEB115

SPLANCHNICOTOMY

RAT GASTRIC MUCOSAL OXYGEN TENSION, ULCER INDEX, PLASMA GASTRIN AND GLUCAGON FOLLOWING RESTRAINT STRESS. INFLUENCE OF VAGOTOMY, SPANCHNICOTOMY AND EXOGENOUS SECRETIN. Schwille PO, Scheller W, Steiner H, Reitzenstein M. *Res Exp Med (Berl)* 167: 149-58, 15 May 76 (Eng) DL/77FEB375

SPONTANEOUS-HYPERTENSIVE RAT

INSULIN KINETIC, GLUCOSE TOLERANCE, AND LIPID METABOLISM IN GENETICALLY SPONTANEOUS-HYPERTENSIVE RATS. Baumann R, Moritz V, Godicke W, Postnow JW, Ziegler M. *Acta Biol Med Ger* 35: k 33-9, 1976 (Eng) DL/77FEB451

STARVATION

INSULIN BIOSYNTHESIS IN PANCREATIC ISLETS ISOLATED FROM STARVED MICE. Andersson A. *Horm Metab Res* 8: 403-4, Sep 76 (Eng) DL/77FEB147

GLUCOSE METABOLISM IN PERFUSED SKELETAL MUSCLE. EFFECTS OF STARVATION, DIABETES, FATTY ACIDS, ACETOACETATE, INSULIN AND EXERCISE ON GLUCOSE UPTAKE AND DISPOSITION. Berger M, Hagg SA, Goodman MN, Ruderman NB. *Biochem J* 158: 191-202, 15 Aug 76 (Eng) DL/77FEB504

STATISTICS

THE EVOLUTIONARY ORIGIN OF PROINSULIN. AMINO ACID SEQUENCE HOMOLOGY WITH THE TRYPSIN-RELATED SERINE PROTEASES DETECTED AND EVALUATED BY NEW STATISTICAL METHODS. de Haen C, Swanson E, Teller DC. *J Mol Biol* 106: 639-61, 25 Sep 76 (Eng) DL/77FEB215

STATUS EPILEPTICUS

TREATMENT OF STATUS EPILEPTICUS [LETTER]. Anonymous. *JAMA* 236: 2173-4, 8 Nov 76 (Eng) DL/77FEB18

STEROID DIABETES

[STEROID DIABETES - VERY SIGNIFICANT COMPLICATION OF IMMUNOSUPPRES-

STREPTOZOTOCIN

SION FOLLOWING THE KIDNEY TRANSPLANTATION] Boskovic S, Haracic M. *Med Arh* 30: 195-7, May-Jun 76 (Ser) DL/77FEB239

STEROL

STEROL BALANCE IN HYPERLIPIDEMIC PATIENTS AFTER DIETARY EXCHANGE OF CARBOHYDRATE FOR FAT. Ahrens EH Jr. *J Lipid Res* 17: 97-106, Mar 76 (Eng) *DL/77FEB595

STH

SEE SOMATOTROPIC HORMONE

STILLS SYNDROME

[GROWTH HORMONE DETERMINATIONS IN CHILDREN WITH RHEUMATOID ARTHRITIS AND STILLS SYNDROME [PROCEEDINGS]] Butenandt O, Eder R, Clados-Kelch A. *Z Rheumatol* 35 suppl 4: suppl 47-53, 1976 (Ger) DL/77FEB445

STIMULUS-SECRETION COUPLING

CALCIUM AND STIMULUS-SECRETION COUPLING IN PANCREATIC ISLET CELLS. PP. 203-10. Matthews EK. In: *Calcium transport in contraction and secretion*. Amsterdam, North-Holland, 1975. QV 276 161c 1975. (Eng) DL/77FEB178

STOMACH

GLUCAGON AND GASTRIN RELEASE BY THE ISOLATED PERFUSED DOG STOMACH IN RESPONSE TO ARGININE. Lefebvre PJ, Luyckx AS, Brassinne AH, Nizet AH. *Metabolism* 25: 1447-9, Nov 76 (Eng) DL/77FEB294

EFFECTS OF GROWTH HORMONE-RELEASE INHIBITING HORMONE (GH-RIH OR SOMATOSTATIN) ON SECRETORY PROCESSES IN STOMACH AND PANCREAS. PP. 407-12. Albinus M, Case RM, Reed JD, Shaw B, Smith PA, Gomez-Pan A, Hall R, Besser GM, Schally AV. In: *Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract*. Baltimore, Univ Park Press, 1976. W1 102 5859 1975. (Eng) *DL/77FEB586

STORAGE

THE RELATION OF STRUCTURE TO STORAGE AND RECEPTOR BINDING OF GLUCAGON. Blundell TL, Dockerill S, Sasaki K, Tickle IJ, Wood SP. *Metabolism* 25: 1331-6, Nov 76 (Eng) DL/77FEB268

STREPTOZOTOCIN

EFFECTS OF STREPTOZOTOCIN IN VITRO ON PROINSULIN BIOSYNTHESIS, INSULIN RELEASE AND ATP CONTENT OF ISOLATED RAT ISLETS OF LANGERHANS. Maldonado A, Trueheart PA, Renold AE, Sharp GW. *Diabetologia* 12: 471-81, Oct 76 (Eng) DL/77FEB116

DECAY OF SUCCINATE DEHYDROGENASE ACTIVITY IN RAT SKELETAL MUSCLE FOLLOWING STREPTOZOTOCIN INJECTION. Armstrong RB, Iannuzzi CD. *Horm Metab Res* 8: 392-4, Sep 76 (Eng) DL/77FEB146

GLUCAGON SECRETION FROM THE PERFUSED RAT PANCREAS FOLLOWING ACUTE AND CHRONIC STREPTOZOTOCIN. Weir GC, Atkins RF, Martin DB. *Metabolism* 25: 1519-21, Nov 76 (Eng) DL/77FEB314

PANCREATIC ISLET CELL CARCINOMA IN A DOG TREATED WITH STREPTOZOTOCIN. Meyer DJ. *Am J Vet Res* 37: 1221-3, Oct 76 (Eng) DL/77FEB487

Diabetes Literature—Keyword Index

STREPTOZOTOCIN DIABETES

EFFECT OF STREPTOZOCIN ON GASTRIN RELEASE. Stadil F, Stage JG *Scand J Gastroenterol* [Suppl] 11: 67-70, 1976 (Eng) *DL/77FEB680

STREPTOZOTOCIN DIABETES

THE INFLUENCE OF STREPTOZOTOCIN DIABETES ON ADRENAL FUNCTION IN MALE RATS. De Nicola AF, Fridman O, Del Castillo EJ, Foglia VG *Horm Metab Res* 8: 388-92, Sep 76 (Eng) DL/77FEB145

STRESS

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL)] Leclercq-Meyer V, Malaisse WJ *Diabete Metab* 1: 119-22, Jun 75 (Fre) DL/77FEB93

ADRENAL AND LIVER PARTICIPATION IN THE RATS POST-STRESS DIABETIC RESPONSE. Vargas I, Kawada ME *Horm Metab Res* 8: 383-8, Sep 76 (Eng) DL/77FEB144

PHYSIOLOGICAL RESPONSES TO STRESS WITH REFERENCE TO THE DOMESTIC FOWL. Freeman BM *Lab Anim* 10: 385-8, Oct 76 (Eng) [15] DL/77FEB230

RAT GASTRIC MUCOSAL OXYGEN TENSION, ULCER INDEX, PLASMA GASTRIN AND GLUCAGON FOLLOWING RESTRAINT STRESS. INFLUENCE OF VAGOTOMY, SPLANCHNICOTOMY AND EXOGENOUS SECRETIN. Schwille PO, Schellner W, Steiner H, Reitzenstein M *Res Exp Med (Berl)* 167: 149-58, 15 May 76 (Eng) DL/77FEB375

[THE SIGNIFICANCE OF STRESS INTENSITY FOR THE EMOTIONAL AND VISCERAL REACTIVITY, ESPECIALLY FOR BLOOD PRESSURE REGULATION] Hecht K, Hai NV, Moritz V, Hecht T *Acta Biol Med Ger* 35: 23-33, 1976 (Ger) DL/77FEB448

STRESS-INDUCED GROWTH HORMONE RELEASE: PSYCHOLOGIC AND PHYSIOLOGIC CORRELATES. Brown WA, Heninger G *Psychosom Med* 38: 145-7, Mar-Apr 76 (Eng) *DL/77FEB630

STRESS, PSYCHOLOGICAL

MODIFICATION OF CELLULAR LIPID METABOLISM BY PSYCHOLOGICAL STRESS. Rose KD, Ursick J, Maca R *Recent Adv Stud Cardiac Struct Metab* 1: 729-41, 1972 (Eng) *DL/77FEB653

STROKE

REACTIVE HYPERGLYCAEMIA IN PATIENTS WITH ACUTE STROKE. Melamed E *J Neurol Sci* 29: 267-75, Oct 76 (Eng) DL/77FEB200

STRUCTURE FUNCTION RELATIONSHIP

STRUCTURE-FUNCTION RELATIONSHIP: IMMUNOLOGIC. Heding LG, Frandsen EK, Jacobsen H *Metabolism* 25: 1327-9, Nov 76 (Eng) DL/77FEB267

STRUCTURE FUNCTION STUDY

SEMISYNTHETIC GLUCAGON DERIVATIVES FOR STRUCTURE-FUNCTION STUDIES. Hruby VJ, Wright DE, Lin MC, Rodbell M *Metabolism* 25: 1323-5, Nov 76 (Eng) DL/77FEB266

SUBCELLULAR LOCALIZATION

[SUBCELLULAR LOCALIZATION OF RAT ADIPOCYTE LIPOPROTEIN LIPASE] Wolf C, Vanhove A, Breton M, Etienne J, Berceziat G, Polonovski J *C R Soc Biol (Paris)* 169: 1145-9, 1975 (Fre) *DL/77FEB528

ADIPOCYTE BETA-ADRENERGIC RECEPTORS. IDENTIFICATION AND SUBCELLULAR LOCALIZATION BY (-)-[3H]DIHYDROALPRENOLOL BINDING. Williams LT, Jarett L, Lefkowitz RJ *J Biol Chem* 251: 3096-104, 25 May 76 (Eng) *DL/77FEB572

SUBCUTANEOUS ADIPOSE TISSUE

OXYGEN UPTAKE AND TISSUE OXYGEN TENSION DURING ADRENERGIC STIMULATION IN CANINE SUBCUTANEOUS ADIPOSE TISSUE. Fredholm BB, Linde B, Prewitt RL, Johnson PC *Acta Physiol Scand* 97: 48-59, Mar 76 (Eng) *DL/77FEB690

SUBSTANCE P

NEUTENSIN AND SUBSTANCE-P: EFFECTS ON PLASMA INSULIN AND GLUCAGON LEVELS. Brown M, Villareal J, Vale W *Metabolism* 25: 1459-61, Nov 76 (Eng) DL/77FEB298

EFFECTS OF SUBSTANCE-P [PROCEEDINGS]. Sasaki H *Metabolism* 25: 1463, Nov 76 (Eng) DL/77FEB299

EFFECTS OF NEUTENSIN AND SUBSTANCE P ON INSULIN AND GLUCAGON RELEASE BY THE PERFUSED DOG PANCREAS [PROCEEDINGS]. Patton G, Brown M, Dobbs R, Vale W, Unger RH *Metabolism* 25: 1465, Nov 76 (Eng) DL/77FEB300

SUBSTRATE

PROTEIN KINASES AND THEIR SUBSTRATES IN BROWN ADIPOSE TISSUE FROM NEWBORN RATS. Knight BL *Biochim Biophys Acta* 429: 798-808, 13 May 76 (Eng) *DL/77FEB521

ACETATE KINASE FROM VEILLONELLA ALCAESCENS. REGULATION OF ENZYME ACTIVITY BY SUCCINATE AND SUBSTRATES. Bowman CM, Valdez RO, Nishimura JS *J Biol Chem* 251: 3117-21, 25 May 76 (Eng) *DL/77FEB573

COMPARATIVE STUDIES OF LIPASE AND PHOSPHOLIPASE A2 ACTING ON SUBSTRATE MONOLAYERS. Verger R, Rietsch J, Van Dam-Mieras MC, de Haas GH *J Biol Chem* 251: 3128-33, 25 May 76 (Eng) *DL/77FEB574

ENERGY STATE AND ULTRASTRUCTURE OF THE SUBSTRATE-DEPLETED HEART. Dhalla NS, Yates JC, Olson RE *Recent Adv Stud Cardiac Struct Metab* 1: 81-94, 1972 (Eng) *DL/77FEB654

EFFECTS OF CHANGES IN THE CONCENTRATIONS OF SUBSTRATE AND OXYGEN ON THE PERFUSED RABBIT HEART. Whereat AF, Nelson JB *Recent Adv Stud Cardiac Struct Metab* 7: 211-7, 1975 (Eng) *DL/77FEB660

MYOCARDIAL SUBSTRATE UPTAKE IN MEN DURING EXERCISE UNDER HYPOXIC CONDITIONS. Keul J, Doll E *Recent Adv Stud Cardiac Struct Metab* 7: 261-6, 1975 (Eng) *DL/77FEB667

MYOCARDIAL SUBSTRATE LEVELS IN VIVO DURING HYPOXIA OF VARIOUS DEGREES AND DURATION. Weissel M, Turnheim K *Recent Adv Stud Cardiac Struct Metab* 7: 275-82, 1975 (Eng) *DL/77FEB669

IS SUBSTRATE SUPPLY OF THE MYOCARDIUM LIMITED BY CAPILLARY EXCHANGE. Kammermeier H, Kammermeier B *Recent Adv*

Stud Cardiac Struct Metab 7: 61-7, 1975 (Eng) *DL/77FEB677

SUCCINATE

ACETATE KINASE FROM VEILLONELLA ALCAESCENS. REGULATION OF ENZYME ACTIVITY BY SUCCINATE AND SUBSTRATES. Bowman CM, Valdez RO, Nishimura JS *J Biol Chem* 251: 3117-21, 25 May 76 (Eng) *DL/77FEB573

SUCCINATE DEHYDROGENASE

DECAY OF SUCCINATE DEHYDROGENASE ACTIVITY IN RAT SKELETAL MUSCLE FOLLOWING STREPTOZOTOCIN INJECTION. Armstrong RB, Ianzuzzo CD *Horm Metab Res* 8: 392-4, Sep 76 (Eng) DL/77FEB146

SUCROSE

INSULIN SECRETION AND BIOSYNTHESIS IN SUCROSE FED RATS. Laube H, Schatz H, Nierle C, Fussganger R, Pfeiffer EF *Diabetologia* 12: 441-6, Oct 76 (Eng) DL/77FEB112

EFFECT OF DIETARY SUBSTITUTION OF SUCROSE AND ITS CONSTITUENT MONOSACCHARIDES ON THE ACTIVITY OF AROMATIC HYDROXYLASE AND THE LEVEL OF CYTOCHROME P-450 IN HEPATIC MICROSOMES OF GROWING RATS. Basu TK, Dickerson JW, Parke DV *Nun Metab* 18: 302-9, 1975 (Eng) *DL/77FEB614

SUGAR

THE LEVEL AND COMPOSITION OF SERUM COID AND NONDIALYSABLE SERUM SUGAR-PEPTIDE FRACTION COMPARED WITH THE ACTIVITY OF GALACTOSYL TRANSFERASE (EC 2.4.1.38) OF LIVER GOLGI MEMBRANES IN INSULIN-TREATED RATS. Guzdek A, Kordowiak A, Sarnacka-Keller M *Clin Chim Acta* 72: 393-9, 1 Nov 76 (Eng) DL/77FEB43

PANCREATIC BETA CELL REPLICATION: EFFECTS OF HEXOSE SUGARS. King DL, Chick WL *Endocrinology* 99: 1003-9, OCT 76 (Eng) DL/77FEB68

THE SUGAR CONNECTION. REACTIVE HYPOGLYCEMIAS AND IMMUNOREACTIVE INSULIN ASSAY. Shah S *J Kans Med Soc* 77: 494, 516, Nov 76 (Eng) DL/77FEB196

SUGAR, BLOOD

BLOOD SUGAR AND BETA-BLOCKERS [LETTER]. Deacon SP *Br Med J* 2: 1012, 23 Oct 76 (Eng) DL/77FEB31

[SIGNIFICANCE OF BLOOD SUGAR NORMALIZATION IN THE PREVENTION OF VASCULAR COMPLICATIONS IN DIABETES MELLITUS] Tchobroutsky G, Slama G *Rev Pu* 26: 3159-71, 11 Oct 76 (Fre) [17] DL/77FEB387

[BLOOD SUGAR AND BLOOD INSULIN AFTER A RAW OR COOKED MEAL IN CONTROL AND DIABETIC SUBJECTS] Havrankova J, Pesant P, Elie R, Matte R *Union Med Can* 105: 1147-51, Aug 76 (Fre) DL/77FEB421

[COMPARATIVE QUANTITATIVE RAPID DETERMINATION OF BLOOD SUGAR BY MEANS OF VARIOUS REFLECTOMETER SYSTEMS] Scherthaner G, Erd W, Sinzinger R, Penner E *Wien Med Wochenschr* 126: 571-4, 1 Oct 76 (Ger) DL/77FEB435

SUGAR, INJECTION

THE ACTION OF THE EXCRETORY APPARATUS OF CALLIPHORA VOMITORIA

Diabetes Literature—Keyword Index

HANDLING INJECTED SUGAR SOLUTION.
Knowles G *J Exp Biol* 64: 131-40, Feb 76 (Eng)
*DL/77FEB596

SUGAR, NEUTRAL

THE INFLUENCE OF INSULIN ON THE PROPORTION OF NEUTRAL SUGARS IN SEROMUCOID OF DIABETIC PATIENTS.
Guzdek A, Ciba T, Sarnecka-Keller M *Clin Chim Acta* 72: 401-4, 1 Nov 76 (Eng) DL/77FEB44

SULFONAMIDE

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77FEB83

SULPHUR

FURTHER STUDIES ON THE POSSIBILITY OF DIFFERENTIAL DEMONSTRATION OF RADICALS OF SULPHUR-CONTAINING AMINO-ACIDS. Szydlowska H, Junikiewicz E *Folia Histochem Cytochem (Krakow)* 14: 57-62, 1976 (Eng) *DL/77FEB563

SURGERY

METABOLISM OF MALTOSE DURING SURGERY IN PATIENTS WITH DIABETES MELLITUS UNDER GENERAL ANESTHESIA. Yoshikawa K, Oda T *Res Exp Med (Berl)* 167: 127-38, 15 May 76 (Eng) DL/77FEB374

SURGICAL REDUCTION OF ADIPOSE TISSUE IN THE MALE SPRAGUE-DAWLEY RAT. Kral JG *Am J Physiol* 231: 1090-6, Oct 76 (Eng) DL/77FEB475

SURGICAL DISEASE

[SURGICAL DISEASES ACCOMPANYING DIABETES MELLITUS] Kashkin KA *Khirurgia (Mosk)* 105-11, Mar 76 (Rus) DL/77FEB224

SURVEY

[ETRAN (ENFLURANE) ANESTHESIA (LITERATURE SURVEY)] Riabov GA, Semenov VN *Eksp Khir Anesteziol* 86-90, May-Jun 76 (Rus) DL/77FEB66

MATERNAL MORTALITY IN DIABETES MELLITUS: AN 18-YEAR SURVEY. Gabbe SG, Mestman JH, Hibbard LT *Obstet Gynecol* 48: 549-51, Nov 76 (Eng) DL/77FEB331

SYMPATHECTOMY, LUMBAR

CHEMICAL LUMBAR SYMPATHECTOMY. Hughes-Davies DI, Redman LR *Anaesthesia* 31: 1068-75, Oct 76 (Eng) DL/77FEB483

SYMPATHETIC NERVE

RELEASE OF ADENOSINE-LIKE MATERIAL FROM ISOLATED PERFUSED DOG ADIPOSE TISSUE FOLLOWING SYMPATHETIC NERVE STIMULATION AND ITS INHIBITION BY ADRENERGIC ALPHA-RECEPTOR BLOCKADE. Fredholm BB *Acta Physiol Scand* 96: 122-30, Mar 76 (Eng) *DL/77FEB689

SYMPTOMATIC

BLOOD GLUCOSE MONITORING IN SYMPTOMATIC HYPOGLYCEMIA. Cole RA, Benedict GW, Margolis S, Kowarski A *Diabetes* 25: 984-8, Oct 76 (Eng) DL/77FEB108

SYNAPTOSOMAL

THE INCORPORATION OF RADIOACTIVE FATTY ACIDS AND OF RADIOACTIVE DERIVATIVES OF GLUCOSE INTO THE PHOSPHOLIPIDS OF SUBSYNAPTOSOMAL FRACTIONS OF CEREBRAL CORTEX. Baker R, Dowdall MJ, Whittaker VP *Biochem J* 154: 65-75, 15 Jan 76 (Eng) *DL/77FEB715

SYNDROME

[THE CENTRAL VITREO-RETINAL FIBROBLASTIC (EDEMATOUS-FIBROBLASTIC) SYNDROME (AUTHORS TRANSL)] Vodovozov AM *Klin Monatsbl Augenheilkd* 169: 212-25, Aug 76 (Ger) DL/77FEB227

[THE SMALL LEFT COLON SYNDROME. 3 CASES] Neuenchwander S, Montagne JP, Boudou A, Bouron D, Mougenot JF, Gruner M, Faure C *Nouv Presse Med* 6: 2311-4, 23 Oct 76 (Fre) DL/77FEB346

SYNDROME, GILBERTS

ALTERATION OF DRUG METABOLISM IN GILBERTS SYNDROME. Carulli N, Ponz de Leon M, Mauro E, Manenti F, Ferrari A *Gut* 17: 581-7, Aug 76 (Eng) DL/77FEB132

SYNDROME, MORGAGNI-MOREL-STEWART

[HORMONAL DISORDERS IN A PATIENT WITH MORGAGNI-MOREL-STEWART SYNDROME] Hrycek A, Kubek A, Grabski J, Kalina Z *Wiad Lek* 29: 1673-6, 15 Sep 76 (Pol) DL/77FEB432

SYNDROME, STILLS

[GROWTH HORMONE DETERMINATIONS IN CHILDREN WITH RHEUMATOID ARTHRITIS AND STILLS SYNDROME (PROCEEDINGS)] Butenandt O, Eder R, Clados-Kelch A *Z Rheumatol* 35 suppl 4: suppl 47-53, 1976 (Ger) DL/77FEB445

SYNTHASE, CITRATE

FACTORS AFFECTING THE ACTIVITY OF CITRATE SYNTHASE OF ACETOBACTER XYLINUM AND ITS POSSIBLE REGULATORY ROLE. Swissa M, Benzman M *Biochem J* 153: 173-9, 1 Feb 76 (Eng) *DL/77FEB713

SYNTHASE, GLYCOGEN

MULTIPLE FORMS OF GLYCOGEN SYNTHASE KINASE: ISOLATION OF FORMS WHICH ARE INDEPENDENT OF CYCLIC AMP. Reimann EM, Schlender KK *J Cyclic Nucleotide Res* 2: 39-46, 1976 (Eng) *DL/77FEB582

SYNTHESIS

MITOGEN RECEPTORS IN CHICK EMBRYO FIBROBLASTS. KINETICS, SPECIFICITY, UNMASKING, AND SYNTHESIS OF 125I-INULIN BINDING SITES. Raizada MK, Perdue JF *J Biol Chem* 251: 6445-55, 25 Oct 76 (Eng) DL/77FEB159

SYNTHESIS OF SOME BETA-O-GLUCOPYRANOSIDES HAVING A HYDROPHOBIC AGLYCON GROUP TERMINATED WITH A HYDROPHILIC GROUP. Bhattacharyya BR, Ramaswamy K, Crane RK *Carbohydr Res* 47: 167-71, Mar 76 (Eng) *DL/77FEB530

DIFFERENTIAL SYNTHESIS OF CRYSTALLINE AND NONCRYSTALLINE POLYPEPTIDES DURING LENS FIBER CELL DIFFERENTIAL

SYNTHESIS, UREA

TION IN VITRO. Beebe DC, Piatigorsky *Exp Eye Res* 22: 237-49, Mar 76 (Eng) *DL/77FEB552

A MODEL FOR CONFORMATIONAL COUPLING OF MEMBRANE POTENTIAL AND PROTON TRANSLLOCATION TO ATP SYNTHESIS AND TO ACTIVE TRANSPORT. Boyer PD *FEBS Lett* 58: 1-6, 15 Oct 75 (Eng) *DL/77FEB555

SYNTHESIS, DEOXYRIBONUCLEIC ACID

INSULIN AND GLUCAGON AS MODIFIERS OF DNA SYNTHESIS IN THE REGENERATING RAT LIVER. Price JB Jr *Metabolism* 25: 1427-8, Nov 76 (Eng) DL/77FEB289

SYNTHESIS, FATTY ACID

EVIDENCE FOR A DIRECT EFFECT ON FATTY ACID SYNTHESIS IN RELA GENE CONTROL OF MEMBRANE PHOSPHOLIPID SYNTHESIS. Nunn WD, Cronan JE Jr *J Mol Biol* 102: 167-72, 25 Mar 76 (Eng) *DL/77FEB602

SYNTHESIS, MEMBRANE PHOSPHOLIPID

EVIDENCE FOR A DIRECT EFFECT ON FATTY ACID SYNTHESIS IN RELA GENE CONTROL OF MEMBRANE PHOSPHOLIPID SYNTHESIS. Nunn WD, Cronan JE Jr *J Mol Biol* 102: 167-72, 25 Mar 76 (Eng) *DL/77FEB602

SYNTHESIS, MYOSIN

EARLY CHANGES IN ACUTE CARDIAC OVERLOAD: STUDIES ON ADENYL CYCLASE ACTIVITY, CYCLIC 35-AMP, AND MYOSIN SYNTHESIS. Schreiber SS, Klein I, Oratz M, Evans C, Gueyikian I, Rothschild MA *Recent Adv Stud Cardiac Struct Metab* 1: 44-58, 1972 (Eng) *DL/77FEB645

SYNTHESIS, PROINSULIN

PROINSULIN SYNTHESIS IN ISLETS OF LANGERHANS FROM SPINY MICE (ACOMYS CAHIRINUS). COMPARISON WITH RATS AND MICE. Trueheart PA, Maldonado A, Kaelin D, Renold AE, Sharp GW *Diabetologia* 12: 463-70, Oct 76 (Eng) DL/77FEB115

SYNTHESIS, PROTEIN

FACTORS CONTROLLING PROTEIN SYNTHESIS IN HEART MUSCLE. Hjalmarson AC, Isaksson O, Kallfelt BJ *Adv Cardiol* 18: 57-80, 1976 (Eng) DL/77FEB463

EFFECTS OF ANOXIA AND ISCHEMIA ON PROTEIN SYNTHESIS IN PERFUSED RAT HEARTS. Kao R, Rannels DE, Morgan HE *Circ Res* 38: i124-30, May 76 (Eng) *DL/77FEB536

INFLUENCE OF THE HYPOPHYSIS ON MITOCHONDRIAL PROTEIN SYNTHESIS. de Favelukes SS, de Tarlovsky MS, Bedetti CD, Stoppani AO *Acta Physiol Lat Am* 25: 107-11, 1975 (Eng) *DL/77FEB688

KINETICS OF PROTEIN SYNTHESIS AND RELEASE IN THE STH-CELL OF THE MOUSE ANTERIOR PITUITARY AS REVEALED BY ELECTRON MICROSCOPIC AUTORADIOGRAPHY OF 3H-AMINO ACIDS. Hiura M, Komatsu M, Fujita H *Arch Histol Jpn* 38: 347-57, Feb 76 (Eng) *DL/77FEB709

SYNTHESIS, UREA

STUDIES ON UREA SYNTHESIS. INSULIN DEGRADATION AND PHAGOCYTOSIS BY ISOLATED RAT KUPFFER CELLS. Wagle SR, Hofmann F, Decker K *Biochem Biophys Res*

Diabetes Literature—Keyword Index

SYNTHETASE, ADENOSINE TRIPHOSPHATE

Commun 72: 448-55, 20 SEP 76 (Eng)
DL/77FEB509

SYNTHETASE, ADENOSINE TRIPHOSPHATE

CONFORMATIONAL CHANGES IN CYTOCHROME AA3 AND ATP SYNTHETASE OF THE MITOCHONDRIAL MEMBRANE AND THEIR ROLE IN MITOCHONDRIAL ENERGY TRANSDUCTION. Wikstrom MK, Saari HT *Mol Cell Biochem* 11: 17-33, 26 Mar 76 (Eng) [70] *DL/77FEB612

TARGET CELL

HORMONAL REGULATION OF THE AFFINITY AND CONCENTRATION OF HORMONE RECEPTORS IN TARGET CELLS. DeMeyts P, Kahn CR, Roth J, Bar RS *Metabolism* 25: 1365-70, Nov 76 (Eng) DL/77FEB275

TEMPERATURE

[LETTER: EFFECT OF TEMPERATURE ON THE STRUCTURAL STATE OF LIPIDS IN MITOCHONDRIAL MEMBRANES] Puchkov EO, Putvinskii AV, Roshchupkin DI, Vladimirov luA *Biophysika* 21: 387-8, Mar-Apr 76 (Rus) *DL/77FEB525

TEMPERATURE-DEPENDENT ETHANOL INHIBITION OF [14C]LEUCINE INCORPORATION IN MOUSE HEART SLICES. Gailis L. *Recent Adv Stud Cardiac Struct Metab* 7: 443-9, 1975 (Eng) *DL/77FEB674

TEST

THE 14C-GLYCOCHOLATE TEST IN DIABETIC DIARRHOEA. Scarpello JH, Hague RV, Cullen DR, Sladen GE *Br Med J* 2: 673-5, 18 Sep 76 (Eng) DL/77FEB23

[COMPARISON OF VARIOUS SEMI-QUANTITATIVE TESTS FOR DETERMINATION OF URINARY GLUCOSE IN DIABETICS (AUTHORS TRANSL)] Dorchy H, Loeb H *Diabete Metab* 1: 87-9, Jun 75 (Fre) DL/77FEB96

LUTEINIZING RELEASE HORMONE TESTS IN IMPOTENT DIABETIC MALES. Wright AD, London DR, Holder G, Williams JW, Rudd BT *Diabetes* 25: 975-7, Oct 76 (Eng) DL/77FEB106

[RADIOIMMUNOLOGIC DETERMINATION OF STH, INSULIN, AND C-PEPTIDE. INDICATION, FUNCTIONAL TESTS, INTERPRETATION OF THE FINDINGS] Schroder KE, Raptis S, Beischer W *Med Welt* 27: 1720-5, 10 Sep 76 (Ger) DL/77FEB257

ON THE MEASUREMENT OF SPONTANEOUS PLATELET AGGREGATION. THE PLATELET AGGREGATION TEST III. METHODS AND FIRST CLINICAL RESULTS. Breddin K, Grun H, Krzywanek HJ, Schremmer WP *Thromb Haemostas* 35: 669-91, 30 Jun 76 (Eng) DL/77FEB412

TEST, GLUCOSE TOLERANCE

A STUDY OF THE EFFECTS OF FASTING TIME ON THE ONE HOUR GLUCOSE TOLERANCE TEST. Parker RD *J Chronic Dis* 29: 667-76, Oct 76 (Eng) DL/77FEB165

TEST STRIP

[POSSIBLE SOURCES OF ERROR IN FALSE EXAMINATION RESULTS DURING THE USE OF BIOPHAN-G-TEST-STRIPS] Heller H, Endres A *Z Aerzt Fortbild (Jena)* 70: 946-9, 1 Sep 76 (Ger) DL/77FEB438

TESTING PROCEDURE

THE BABOON IN ATHEROSCLEROSIS RESEARCH: COMPARISON WITH OTHER SPECIES AND USE IN TESTING DRUGS AFFECTING LIPID METABOLISM. Howard AN *Adv Exp Med Biol* 67: 77-87, 1976 (Eng) *DL/77FEB698

TESTOSTERONE

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL, TESTOSTERONE AND GROWTH HORMONE LEVELS IN WEIGHT LIFTERS] Skierska E, Ustupka J, Biczowa B, Lukaszewska J *Endokrynol Pol* 27: 159-65, Mar-Apr 76 (Pol) *DL/77FEB550

MEAN 24-HOUR GROWTH HORMONE AND TESTOSTERONE CONCENTRATIONS IN RELATION TO PUBERTAL GROWTH SPURT IN BOYS WITH NORMAL OR DELAYED PUBERTY. Butenandt O, Eder R, Wohlfarth K, Bidlingmaier F, Knorr D *Eur J Pediatr* 122: 85-92, 4 May 76 (Eng) *DL/77FEB551

THEOPHYLLINE

EFFECTS OF NA& DEPLETION, THEOPHYLLINE AND 2,4-DINITROPHENOL ON NEUTRAL AMINO ACID INFLUX AND CYCLIC ADENOSINE 3:5-MONOPHOSPHATE LEVELS IN CHICKEN SMALL INTESTINE. Burrill PH, Sattelmeyer PA, Lerner J *Comp Biochem Physiol [C]* 53: 95-9, 1976 (Eng) *DL/77FEB543

THERAPEUTIC AGENT

[THERAPEUTIC REQUIREMENTS OF NON-INSULIN DEPENDENT DIABETES AND ITS VARIANTS] Dorf G, Bour H *Sem Hop Ther* 52: 121-3, Feb 76 (Fre) DL/77FEB400

A MODEL FOR THERAPEUTIC INTERVENTIONS ON ESTABLISHED CORONARY ATHEROSCLEROSIS IN A NONHUMAN PRIMATE. Malinow MR, McLaughlin O, Papworth L, Naito HK, Lewis L, McNulty WP *Adv Exp Med Biol* 67: 3-31, 1976 (Eng) *DL/77FEB694

THERAPY, DIABETES

PANCREATIC ISLET CELL TRANSPLANTATION AND DIABETES THERAPY. Monaco AP, Codish SD *Compr Ther* 2: 29-37, Nov 76 (Eng) DL/77FEB50

[MUSCULAR WORK IN THE THERAPY OF DIABETES MELLITUS] Berger M *Fortschr Med* 94: 1553-7, 7 Oct 76 (Ger) DL/77FEB136

THERMOTROPIC

FLUIDITY IN MITOCHONDRIAL MEMBRANES: THERMOTROPIC LATERAL TRANSLATIONAL MOTION OF INTRAMEMBRANE PARTICLES. Hochli M, Hackenbrock CR *Proc Natl Acad Sci USA* 73: 1636-40, May 76 (Eng) *DL/77FEB625

THIAMINE DEFICIENCY

CATECHOLAMINE METABOLISM IN THIAMINE-DEFICIENT RATS. Iwata H *J Nutr Sci Vitaminol (Tokyo)* 22 SUPPL: 25-7, Aug 76 (Eng) DL/77FEB205

THROMBOCYTE

[ROLE OF THE THROMBOCYTES IN CHANGES IN THE HEMOSTATIC SYSTEM IN DIABETES MELLITUS] Petrov MN, Gavrishcheva NA, Filatova AM, Tsikarishvili NV, Vashkinel VK *Klin Med (Mosk)* 54: 119-22, Jul 76 (Rus) DL/77FEB229

THYMOCYTE

CONCANAVALIN A STIMULATION MODIFIES THE LIPID AND PROTEIN STRUCTURE OF RABBIT THYMOCYTE PLASMA MEMBRANES. A LASER RAMAN STUDY. Schmidt-Ullrich R, Verma SP, Wallach DF *Biochim Biophys Acta* 426: 477-88, 19 Mar 76 (Eng) *DL/77FEB519

THYROTOXIC PERIODIC PARALYSIS

THYROTOXIC PERIODIC PARALYSIS: A PECULIAR CASE WITH UNUSUAL DYSTONIC BEHAVIOR AND VARIABLE RELATIONS OF PARALYSIS TO SERUM POTASSIUM LEVELS. Kusakabe T, Yoshida M, Nishikawa M *J Clin Endocrinol Metab* 43: 730-40, Oct 76 (Eng) DL/77FEB167

THYROTOXICOSIS

[CHARACTERISTICS OF THYROTOXICOSIS ASSOCIATED WITH DIABETES MELLITUS] Kuleshov EV *Khirurgiya (Mosk)* 83-7, Sep 76 (Rus) DL/77FEB226

MYOCARDIAL HIGH ENERGY PHOSPHATES IN EXPERIMENTAL THYROTOXICOSIS IN GUINEA PIGS. Jahrmarker H, Rackwitz R, Otter HP *Recent Adv Stud Cardiac Struct Metab* 7: 199-207, 1975 (Eng) *DL/77FEB659

THYROTROPIC HORMONE

[LOW THYROTROPIC HORMONE: A NEW ENTITY] Berthezene F, Paffoy JC, Escallier A, Bizillon C, Mornex R *Nouv Presse Med* 5: 2138-40, 9 Oct 76 (Fre) DL/77FEB343

THYROTROPIN

[RELATIONSHIPS BETWEEN THYROTROPIN, GROWTH HORMONE AND INSULIN IN HYPOTHYROIDISM] Vergara Rodriguez J, De Los Monteros Mena AE, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 1021-31, Sep-Oct 76 (Spa) DL/77FEB1

THYROTROPIN RELEASING HORMONE

INFLUENCE OF CHRONIC THYROTROPIN-RELEASING HORMONE INJECTIONS ON SECRETION OF PROLACTIN, THYROTROPIN AND GROWTH HORMONE AND ON GROWTH RATE IN WETHER LAMBS. Davis SL, Hill DM, Ohlson DL, Jacobs JA *J Anim Sci* 42: 1244-50, May 76 (Eng) *DL/77FEB566

THYROXINE

THE INHIBITION OF INSULIN SECRETION FROM THE PERFUSED RAT PANCREAS AFTER THYROXINE TREATMENT. Lenzen S, Joost HG, Hasselblatt A *Diabetologia* 12: 495-500, Oct 76 (Eng) DL/77FEB118

TISSUE

ADENYLATE CYCLASE ACTIVITY IN HUMAN TISSUES. Constantopoulos A, Xypolita A, Masioti N *Biol Neonate* 29: 294-8, 1976 (Eng) DL/77FEB14

TISSUE CONCENTRATIONS OF ANTIBIOTICS. Mannheim C, Brorson JE *J Antimicrob Chemother* 2: 313-4, Sep 76 (Eng) DL/77FEB156

CHARACTERISTICS OF TISSUE IRGS IN THE DOG. Srikanth CB, McCorkle K, Unger RH *Metabolism* 25: 1403-4, Nov 76 (Eng) DL/77FEB283

INCORPORATION OF AMINO ACID INTO TOTAL AND CONTRACTILE PROTEIN OF

Diabetes Literature—Keyword Index

TRANSPLANTATION

TRANSAMINASE, GLUTAMATE PYRUVATE

REGULATION OF HEPATIC ADENYLATE CYCLASE BY GLUCAGON, GTP, DIVALENT CATIONS, AND ADENOSINE. Rodbell M, London C *Metabolism* 25: 1347-9, Nov 76 (Eng) DL/77FEB271

TRANSFERASE, 3-OXO ACID COENZYME A

3-OXO ACID COENZYME A-TRANSFERASE IN NORMAL AND DIABETIC RAT MUSCLE. Fenselau A, Wallis K *Biochem J* 158: 509-12, 15 Aug 76 (Eng) DL/77FEB507

TRANSFERASE, GALACTOSYL

THE LEVEL AND COMPOSITION OF SEROMUCOID AND NONDIALYSABLE SERUM SUGAR-PEPTIDE FRACTION COMPARED WITH THE ACTIVITY OF GALACTOSYLTRANSFERASE (EC 2.4.1.38) OF LIVER GOLGI MEMBRANES IN INSULIN-TREATED RATS. Guzdek A, Kordowiak A, Sarnecka-Keller M *Clin Chim Acta* 72: 393-9, 1 Nov 76 (Eng) DL/77FEB43

TRANSFERASE, GLUCOSYL

ELEVATED KIDNEY GLUCOSYLTRANSFERASE ACTIVITY IN GENETIC PRE-DIABETIC MICE. Reddi AS, Oppermann W, Reddy MP, Velasco CA, Camerini-Davalos RA *Experientia* 32: 1237-8, 15 Oct 76 (Eng) DL/77FEB75

TRANSLATIONAL MOTION

FLUIDITY IN MITOCHONDRIAL MEMBRANES: THERMOTROPIC LATERAL TRANSLATIONAL MOTION OF INTRAMEMBRANE PARTICLES. Hochli M, Hackenbrock CR *Proc Natl Acad Sci USA* 73: 1636-40, May 76 (Eng) *DL/77FEB625

TRANSMURAL GRADIENT

TRANSMURAL GRADIENTS IN THE ISCHEMIC DOG LEFT VENTRICLE: METABOLISM OF ENDOGENOUS TRIGLYCERIDES AND GLYCOGEN. Crass MF 3d, Holsinger JW Jr, Shipp JC, Eliot RS, Pieper GM *Recent Adv Stud Cardiac Struct Metab* 7: 225-30, 1975 (Eng) *DL/77FEB662

TRANSPLANTATION

PANCREATIC ISLET CELL TRANSPLANTATION AND DIABETES THERAPY. Monaco AP, Codish SD *Compr Ther* 2: 29-37, Nov 76 (Eng) DL/77FEB50

HYPERINSULINEMIA AND HYPERGLUCAGONEMIA FOLLOWING PANCREATIC ISLET TRANSPLANTATION IN DIABETIC RATS. Weber CJ, Hardy MA, Lerner RL, Felig P, Reemsma K *Diabetes* 25: 944-8, Oct 76 (Eng) DL/77FEB101

ISLET TRANSPLANTATION IN EXPERIMENTAL DIABETES OF THE RAT. V. REGRESSION OF GLOMERULAR LESIONS IN DIABETIC RATS AFTER INTRAPORTAL TRANSPLANTATION OF ISOGENIC ISLETS. PRELIMINARY RESULTS. Federlin K, Bretzel RG, Schmidtchen U *Horm Metab Res* 8: 404-6, Sep 76 (Eng) DL/77FEB148

A MICROSURGICAL TECHNIQUE FOR ORTHOTOPIC OVARIAN TRANSPLANTATION IN THE CHINESE HAMSTER. Schmidt FL, Miller RL, Peterson T, Soret MG *Surgery* 80: 595-600, Nov 76 (Eng) DL/77FEB409

TISSUE CULTURE, ADIPOSE

HUMAN ADIPOSE TISSUE IN CULTURE. VI. EFFECT OF AGE ON CELL SIZE AND LIPOLYSIS. Nyberg G, Mellgren G, Smith U *Acta Paediatr Scand* 65: 313-8, May 76 (Eng) *DL/77FEB687

TISSUE, LENS

GAS CHROMATOGRAPHIC STUDY OF FREE POLYOLS AND ALDOSES IN CATARACTOUS HUMAN LENS TISSUE. Pfaffenberger CD, Szafranek J, Horning EC *J Chromatogr* 126: 535-45, 3 Nov 76 (Eng) DL/77FEB164

TISSUE, PANCREATIC

[XENOTRANSPLANTATION OF FETAL ENDOCRINE PANCREATIC TISSUE. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 690-9, 1976 (Fre) DL/77FEB61

TISSUE, UTERINE

[THE GLYCOGEN CONTENT OF BLOOD AND UTERINE TISSUE IN WOMEN WITH MYOMA AND ENDOMETRIOSIS (AUTHORS TRANSL)] Muck BR, Hommel G *Arch Gynaekol* 221: 129-37, 17 Sep 76 (Ger) DL/77FEB493

TOLBUTAMIDE

PHARMACOKINETIC ANALYSIS OF THE INTERACTION BETWEEN DICOUMAROL AND TOLBUTAMIDE IN MAN. Jahnchen E, Meinertz T, Gillrich HJ, Groth U *Eur J Clin Pharmacol* 10: 349-56, 30 Sep 76 (Eng) DL/77FEB74

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerasi E *Diabetes Metab* 1: 51-6, Mar 75 (Eng) DL/77FEB88

HIGH-PRESSURE LIQUID CHROMATOGRAPHIC ANALYSIS OF TOLBUTAMIDE IN SERUM. Weber DJ *J Pharm Sci* 65: 1502-5, OCT 76 (Eng) DL/77FEB209

[MODIFICATION OF INSULIN-SECRETION, INDUCED BY GLUCOSE, OF THE ISOLATION-PERFUSED RAT PANCREAS USING TOLBUTAMIDE, GLUCOSAMINE, DIAZOXIDE, GLUCAGON AND ENDOGENOUS INSULIN] Bierwolf B, Blech W *Acta Biol Med Ger* 35: 583-95, 1976 (Ger) DL/77FEB450

TOLERANCE, CARBOHYDRATE

CARBOHYDRATE TOLERANCE AND OBESITY. Breidahi HD *Med J Aust* 1: 9-10, 19 Jun 76 (Eng) DL/77FEB319

TONGUE

ORAL CANDIDA, DEBILITATING DISEASE AND ATROPHIC LESIONS OF THE TONGUE. Farman AG, Nutt G *J Biol Buccale* 4: 203-26, SEP 76 (Eng) DL/77FEB158

ATROPHIC LESIONS OF THE TONGUE: A PREVALENCE STUDY AMONG 175 DIABETIC PATIENTS. Farman AG *J Oral Pathol* 5: 255-64, Sep 76 (Eng) DL/77FEB206

TOXICOLOGY

EFFECTS OF TRIETHYLENETETRAMINE UPON THE METABOLISM AND TOXICITY OF 63NiCl₂ IN RATS. Sunderman FW Jr, Kasprzak K, Horak E, Gitlitz P, Onkelinx C *Toxicol Appl Pharmacol* 38: 177-88, Oct 76 (Eng) DL/77FEB414

TISSUE SLICES OF THE HYPERTROPHYING RAT HEART. Wollenberger A, Onnen K *Recent Adv Stud Cardiac Struct Metab* 1: 186-9, 1972 (Eng) *DL/77FEB638

A RAPID METHOD FOR THE DETERMINATION OF GLYCOGEN CONTENT AND RADIOACTIVITY IN SMALL QUANTITIES OF TISSUE OR ISOLATED HEPATOCYTES. Chan TM, Exton JH *Anal Biochem* 71: 96-105, Mar 76 (Eng) *DL/77FEB701

TISSUE, ADIPOSE

[ANTAGONISM IN THE ACTION OF HYDROCORTISONE AND INSULIN IN VIVO ON ENZYMES OF PYRUVATE AND MALATE METABOLISM IN ADIPOSE TISSUE] Ilin VS, Vasileva LE, Tokhadze OG *Biokhimiia* 41: 1646-50, Sep 76 (Rus) DL/77FEB12

SERUM TRIGLYCERIDES AND FATTY ACID INCORPORATION INTO HUMAN ADIPOSE TISSUE (TIAT). THEIR RELATIONS WITH ADIPOSE TISSUE CHARACTERISTICS AND GLUCOSE TOLERANCE. Walldius G *Acta Med Scand* 200: 409-21, 1976 (Eng) DL/77FEB460

SURGICAL REDUCTION OF ADIPOSE TISSUE IN THE MALE SPRAGUE-DAWLEY RAT. Kral JG *Am J Physiol* 231: 1090-6, Oct 76 (Eng) DL/77FEB475

THE EFFECT OF GLUCOSE, INSULIN AND ADRENALINE ON GLYCEROL METABOLISM IN VITRO IN RAT ADIPOSE TISSUE. Dominguez MC, Herrera E *Biochem J* 158: 183-90, 15 Aug 76 (Eng) DL/77FEB503

INTRA- AND EXTRACELLULAR FORMS OF LIPOPROTEIN LIPASE IN ADIPOSE TISSUE. Nilsson-Ehle P, Garfinkel AS, Schotz MC *Biochim Biophys Acta* 431: 147-56, 22 Apr 76 (Eng) *DL/77FEB522

[ADIPOSE-TISSUE ADENYL CYCLASE] Kather H, Simon B *Med Klin* 71: 739-44, 30 Apr 76 (Ger) [63] *DL/77FEB610

EFFECT OF ETHANOL ON THE ACTIVITY OF LIPOPROTEIN LIPASE IN ADIPOSE TISSUE OF MALE AND FEMALE RATS. Johnson O, Hernell O *Nutr Metab* 19: 41-4, 1975 (Eng) *DL/77FEB616

TRIGLYCERIDE METABOLISM IN EPIDIDYMAL ADIPOSE TISSUE OF OBESE ANIMALS. Okuda H *Pharmacol Biochem Behav* 3: 145-7, 1975 (Eng) *DL/77FEB626

RELEASE OF ADENOSINE-LIKE MATERIAL FROM ISOLATED PERFUSED DOG ADIPOSE TISSUE FOLLOWING SYMPATHETIC NERVE STIMULATION AND ITS INHIBITION BY ADRENERGIC ALPHA-RECEPTOR BLOCKADE. Fredholm BB *Acta Physiol Scand* 96: 122-30, Mar 76 (Eng) *DL/77FEB689

OXYGEN UPTAKE AND TISSUE OXYGEN TENSION DURING ADRENERGIC STIMULATION IN CANINE SUBCUTANEOUS ADIPOSE TISSUE. Fredholm BB, Linde B, Prewitt RL, Johnson PC *Acta Physiol Scand* 97: 48-59, Mar 76 (Eng) *DL/77FEB690

TISSUE, BREAST

GLUCOSE UPTAKE BY NORMAL HUMAN BREAST TISSUE IN ORGAN CULTURE. INFLUENCE OF INSULIN AND OTHER ADDITIVES. van Bogaert LJ *Cell Tissue Res* 171: 535-41, 1 Sep 76 (Eng) DL/77FEB40

TISSUE CULTURE

[ANALYSIS OF BREAST CELL DIFFERENTIATION IN TISSUE CULTURE UNDER THE INFLUENCE OF HORMONES] Kalantar IL, Khristaleva GI, Neechipurenko LV, Medvedev IK *Tsitologia* 18: 1014-9, Aug 76 (Rus) DL/77FEB416

TRANSPLANTATION, KIDNEY

[EXPERIMENTAL TRANSPLANTATION OF THE PANCREAS AND DUODENUM] Gutauskas M *Pol Przegl Chir* 48: 481-5, Apr 76 (Pol) *DL/77FEB621

TRANSPLANTATION, KIDNEY

[STERIOD DIABETES - VERY SIGNIFICANT COMPLICATION OF IMMUNOSUPPRESSION FOLLOWING THE KIDNEY TRANSPLANTATION] Boskovic S, Haracic M *Med Arh* 30: 195-7, May-Jun 76 (Ser) DL/77FEB239

TRANSPLANTATION, RENAL

SPECIAL PROBLEMS IN DIABETIC RENAL TRANSPLANTATION. Simmons RL, Payne WD, Sutherland DE, Howard RJ, Goetz FC, Barbosa J, Kjellstrand CM, Najarian JS *Urol Clin North Am* 3: 691-9, Oct 76 (Eng) DL/77FEB424

TRANSPORT

[TRANSPORT OF FREE FATTY ACIDS AND ENERGY METABOLISM DURING HYPO- AND HYPERCALORIC FORMULA DIETS] Schonborn J, Dadrich E, Rabast U, Kasper H *Verh Dtsch Ges Inn Med* 81: 1402-5, 1975 (Ger) *DL/77FEB685

TRANSPORT, ACTIVE

A MODEL FOR CONFORMATIONAL COUPLING OF MEMBRANE POTENTIAL AND PROTON TRANSLLOCATION TO ATP SYNTHESIS AND TO ACTIVE TRANSPORT. Boyer PD *FERS Lett* 58: 1-6, 15 Oct 75 (Eng) *DL/77FEB555

AN EXPERIMENT ELIMINATING THE ROTATING CARRIER MECHANISM FOR THE ACTIVE TRANSPORT OF CA ION IN SARCOPLASMIC RETICULUM MEMBRANES. Dutton A, Rees ED, Singer SJ *Proc Natl Acad Sci USA* 73: 1532-6, May 76 (Eng) *DL/77FEB624

TRANSPORT, ELECTRON

COORDINATION OF CITRIC ACID CYCLE ACTIVITY WITH ELECTRON TRANSPORT FLUX. Williamson JR, Ford C, Illingworth J, Safer B *Circ Res* 38: 139-51, May 76 (Eng) *DL/77FEB538

TRANSPORT, GLUCOSE

EFFECT OF CHRONIC ADMINISTRATION OF NICOTINE ON METABOLIC RESPONSES AND INTESTINAL GLUCOSE TRANSPORT. PP. 127-36. Bhagat B, van Beaumont W, Ellert MS In: Singh JM, Lal H, ed. *Drug addiction. Vol 40. New aspects of analytical and clinical toxicology.* New York, Stratton, 1974. W3 IN917KC 1973d. (Eng) [15] *DL/77FEB593

TRASYLOL

[USE OF TRASYLOL IN DIABETIC KETOACIDOSIS] Zelinskii BA, Kogut ES *Vrach Delo* 78-80, Sep 76 (Rus) DL/77FEB429

TRAUMATIZED

ENERGY METABOLISM AND PROTEOLYSIS IN TRAUMATIZED AND SEPTIC MAN. Clowes GH Jr, O'Donnell TF, Blackburn GL, Maki TN *Surg Clin North Am* 56: 1169-84, Oct 76 (Eng) [53] DL/77FEB406

TREATMENT

TREATMENT OF DIABETES MELLITUS. Colwell JA *Compr Ther* 2: 16-21, Nov 76 (Eng) DL/77FEB48

TRIACYLGLYCERIDE

[INFLUENCE OF ANGIOTENSIN II ON THE FATTY ACID LEVEL IN THE TRIACYLGLYCERIDES OF THE BLOOD PLASMA OF RABBITS] Mikhailov ML *Patol Fiziol Eksp Ter* 75-7, May-Jun 75 (Rus) *DL/77FEB620

TRIETHYLENETETRAMINE

EFFECTS OF TRIETHYLENETETRAMINE UPON THE METABOLISM AND TOXICITY OF 63NICKEL IN RATS. Sunderman FW Jr, Kasprzak K, Horak E, Gitlitz P, Onkelinx C *Toxicol Appl Pharmacol* 38: 177-88, Oct 76 (Eng) DL/77FEB414

TRIGLYCERIDE

[THE BEHAVIOR OF LIPOPROTEINS, CHOLESTEROL, TRIGLYCERIDES, FREE FATTY ACIDS AND FREE GLYCEROL IN SERUM OF RATS WITH EXPERIMENTAL HYPERTHYROIDISM AND HYPOTHYROIDISM] Hubner G, Renner K, Rauer G *Endokrinologie* 67: 60-6, Mar 67 (Ger) *DL/77FEB548

MECHANISM OF ETHANOL-INDUCED TRIGLYCERIDE ACCUMULATION IN THE RABBIT HEART. Kako KJ, Kikuchi T *Recent Adv Stud Cardiac Struct Metab* 1: 596-604, 1972 (Eng) *DL/77FEB647

TRANSMURAL GRADIENTS IN THE ISCHEMIC DOG LEFT VENTRICLE: METABOLISM OF ENDOGENOUS TRIGLYCERIDES AND GLYCOGEN. Crass MF 3d, Holsinger JW Jr, Shipp JC, Eliot RS, Pieper GM *Recent Adv Stud Cardiac Struct Metab* 7: 225-30, 1975 (Eng) *DL/77FEB662

TRIGLYCERIDE METABOLISM

TRIGLYCERIDE METABOLISM IN EPIDIDYMAL ADIPOSE TISSUE OF OBESE ANIMALS. Okuda H *Pharmacol Biochem Behav* 3: 145-7, 1975 (Eng) *DL/77FEB626

TRIGLYCERIDE, SERUM

SERUM TRIGLYCERIDES AND FATTY ACID INCORPORATION INTO HUMAN ADIPOSE TISSUE (TIAT). THEIR RELATIONS WITH ADIPOSE TISSUE CHARACTERISTICS AND GLUCOSE TOLERANCE. Walldius G *Acta Med Scand* 200: 409-21, 1976 (Eng) DL/77FEB460

TROPHIC HORMONE

LETTER: EFFECT OF ALCOHOL ON ANTERIOR-PITUITARY SECRETION OF TROPHIC HORMONES. Ylikahri RH, Huttunen MO, Harkonen M *Lancet* 1: 1353, 19 Jun 76 (Eng) *DL/77FEB608

TRYPSIN

THE EVOLUTIONARY ORIGIN OF PROINSULIN. AMINO ACID SEQUENCE HOMOLOGY WITH THE TRYPSIN-RELATED SERINE PROTEASES DETECTED AND EVALUATED BY NEW STATISTICAL METHODS. de Haen C, Swanson E, Teller DC *J Mol Biol* 106: 639-61, 25 Sep 76 (Eng) DL/77FEB215

TRYPTOPHAN

INSULIN SECRETION IN MIGRAINE: INFLUENCE ON THE BLOOD LEVELS OF TRYPTOPHAN. Poloni M, Nappi G, Bono G, Roggi C, Arpesella M, Virgilio P *Monogr Neural Sci* 3: 67-70, 1976 (Eng) DL/77FEB322

TUBERCULOSIS, PULMONARY

[CLINICAL STUDIES ON INSULIN RESPONSE TO GLUCOSE TOLERANCE TEST IN PATIENTS WITH PULMONARY TUBERCULOSIS (AUTHORS TRANSL.)] Oe N *Kekkaku* 51: 313-28, 15 Aug 76 (Jpn) DL/77FEB222

TUMOR

CLINICAL CORRELATIONS OF SERUM PROINSULIN-LIKE MATERIAL IN ISLET CELL TUMOURS. Alsever RN, Stjernholm MR, Sussman KE, Mako ME, Rubenstein AH *Diabetologia* 12: 527-30, Oct 76 (Eng) DL/77FEB123

[GIANT TUMOR OF THE MEDIASTINUM ASSOCIATED WITH HYPOGLYCEMIA: STUDY OF HYPOGLYCEMIA CAUSED BY EXTRA-PANCREATIC TUMOR] Ishikawa S, Suzuki R, Onishi T *J Jpn Assoc Thorac Surg* 24: 967-75, Jul 76 (Jpn) DL/77FEB194

HISTOLOGIC CHARACTERISTICS OF INSULINOMAS AND GASTRINOMAS. VALUE OF ARGYROPHILIA, METACHROMASIA, IMMUNOHISTOCHEMISTRY, AND ELECTRON MICROSCOPY FOR THE IDENTIFICATION OF GASTROINTESTINAL AND PANCREATIC ENDOCRINE CELLS AND THEIR TUMORS. Woodtli W, Hedinger C *Virchows Arch [Pathol Anat]* 371: 331-50, 7 Oct 76 (Eng) DL/77FEB425

TUMORS OF THE ISLETS OF LANGERHANS. Zollinger RM, Mazzaferri EL *Adv Surg* 10: 137-76, 1976 (Eng) [73] DL/77FEB464

TYROSYL

STRUCTURAL STUDIES ON DES-PENTAPEPTIDE (B26-30)-INSULIN. III. STATE OF AGGREGATION, TYROSYL ENVIRONMENT, AND PEPTIDE BACKBONE CONFORMATION IN SOLUTION. Anonymous Sci Sin 19: 475-85, Jul-Aug 76 (Eng) DL/77FEB395

TYROSYL RESIDUE

EFFECTS OF IODINATION OF TYROSYL RESIDUES ON THE BINDING AND ACTION OF GLUCAGON AT ITS RECEPTOR. Lin MC, Nicosia S, Rodbell M *Biochemistry* 15: 4537-40, 5 Oct 76 (Eng) DL/77FEB9

ULCER

RAT GASTRIC MUCOSAL OXYGEN TENSION, ULCER INDEX, PLASMA GASTRIN AND GLUCAGON FOLLOWING RESTRAINT STRESS. INFLUENCE OF VAGOTOMY, SPALANCHNICOTOMY AND EXOGENOUS SECRETIN. Schwillle PO, Schellerer W, Steiner H, Reitzenstein M *Res Exp Med (Berl)* 167: 149-58, 15 May 76 (Eng) DL/77FEB375

ULCER, PEPTIC

PEPTIC ULCER IN DIABETES MELLITUS. Masuda H, Inoue S, Arakawa H, Koizumi K, Kubo N *Gastroenterol Jpn* 11: 1-4, 1976 (Eng) DL/77FEB128

ULTRASTRUCTURE

ULTRASTRUCTURE OF B-CELLS OF LANGERHANS ISLETS IN RATS AFTER THE ADMINISTRATION OF L-LEUCINE. Galabova R, Petkov P *Endocrinol Exp (Bristol)* 10: 217-21, 1976 (Eng) DL/77FEB67

ULTRASTRUCTURAL STUDIES OF HUMAN ACUTE PANCREATITIS. Taura S, Tsunoda T, Yoshino R, HARADA N, Akashi M *Gastroenterol Jpn* 10: 132-40, 1975 (Eng) DL/77FEB127

Diabetes Literature—Keyword Index

VESICLE, SECRETORY

VASODILATOR

THE INFLUENCE OF GLUCAGON UPON THE RESPONSES OF THE HEPATIC ARTERIAL VASCULATURE TO VASODILATOR AGENTS [PROCEEDINGS]. Richardson PD, Withington PG *Br J Pharmacol* 57: 473p, Jul 76 (Eng) DL/77FEB17

VEILLONELLA ALCALESCENS

ACETATE KINASE FROM VEILLONELLA ALCALESCENS. REGULATION OF ENZYME ACTIVITY BY SUCCINATE AND SUBSTRATES. Bowman CM, Valdez RO, Nishimura JS *J Biol Chem* 251: 3117-21, 25 May 76 (Eng) *DL/77FEB573

VEIN

ARTERIAL-HEPATIC VEIN GLUCOSE DIFFERENCES IN NORMAL AND DIABETIC MAN AFTER A GLUCOSE INFUSION AT REST AND AFTER EXERCISE. Maehlum S, Jervell J, Pruett ED *Scand J Clin Lab Invest* 36: 415-22, Sep 76 (Eng) DL/77FEB391

VENOUS

EFFECTS OF ARTERIAL VERSUS VENOUS SAMPLING ON ANALYSIS OF GLUCOSE KINETICS IN MAN. McGuire EA, Helderman JH, Tobin JD, Andres R, Berman M *Biochem J* 157: 565-73, 1 Sep 76 (Eng) DL/77FEB500

VENTRICLE

TRANSMURAL GRADIENTS IN THE ISCHEMIC DOG LEFT VENTRICLE: METABOLISM OF ENDOGENOUS TRIGLYCERIDES AND GLYCOGEN. Crass MF 3d, Holsinger JW Jr, Shipp JC, Eliot RS, Pieper GM *Recent Adv Stud Cardiac Struct Metab* 7: 225-30, 1975 (Eng) *DL/77FEB662

VENTRICULAR ANOXIA

EFFECT OF AGING ON RIGHT VENTRICULAR ANOXIC RESISTANCE. Martin LG, McGrath JJ, Connors JM *Recent Adv Stud Cardiac Struct Metab* 7: 267-74, 1975 (Eng) *DL/77FEB668

VENTRICULAR CONTRACTION

[POLYCARDIOGRAPHIC EVALUATION OF LEFT VENTRICULAR CONTRACTION FOLLOWING GLUCAGON ADMINISTRATION TO PATIENTS WITH CHRONIC CIRCULATORY FAILURE] Szczeklik J, Dubiel J, Pyzik Z *Pol Tyg Lek* 31: 1709-12, 4 Oct 76 (Pol) DL/77FEB347

VENTRICULAR FUNCTION

DIABETES MELLITUS AND LEFT VENTRICULAR FUNCTION. Ahmed SS, Regan TJ *Compr Ther* 2: 51-7, Nov 76 (Eng) DL/77FEB53

VESICLE

PREPARATION AND PROPERTIES OF VESICLES ENCLOSED BY FATTY ACID MEMBRANES. Gebicki JM, Hicks M *Chem Phys Lipids* 16: 142-60, Mar 76 (Eng) *DL/77FEB534

VESICLE, SECRETORY

REGULATION OF SECRETION FROM THE ADRENAL MEDULLA. EVIDENCE FOR ADENYLATE CYCLASE ACTIVITY IN SECRETORY VESICLE MEMBRANES. Zinder O, Nikoijevic O, Hoffman PG, Pollard HB *J Biol Chem* 241: 2179-81, 10 Apr 76 (Eng) *DL/77FEB569

[THE DETERMINATION OF GLUCOSE IN URINE] Poge AW *Z Med Labortech* 17: 59-78, 1976 (Ger) DL/77FEB441

UTERINE TISSUE

[THE GLYCOGEN CONTENT OF BLOOD AND UTERINE TISSUE IN WOMEN WITH MYOMA AND ENDOMETRIOSIS (AUTHORS TRANSL)] Muck BR, Hommel G *Arch Gynaekol* 221: 129-37, 17 Sep 76 (Ger) DL/77FEB493

VAGOTOMY

RAT GASTRIC MUCOSAL OXYGEN TENSION, ULCER INDEX, PLASMA GASTRIN AND GLUCAGON FOLLOWING RESTRAINT STRESS. INFLUENCE OF VAGOTOMY, SPLANCHNICOTOMY AND EXOGENOUS SECRETIN. Schwille PO, Schellerer W, Steiner H, Reitzenstein M *Res Exp Med (Berl)* 167: 149-58, 15 May 76 (Eng) DL/77FEB375

VARIATION

[THERAPEUTIC REQUIREMENTS OF NON-INSULIN DEPENDENT DIABETES AND ITS VARIANTS] Dorf G, Bour H *Sem Hop Ther* 52: 121-3, Feb 76 (Fre) DL/77FEB400

VASCULAR COMPLICATION

[SIGNIFICANCE OF BLOOD SUGAR NORMALIZATION IN THE PREVENTION OF VASCULAR COMPLICATIONS IN DIABETES MELLITUS] Tchobrousky G, Slama G *Rev Prat* 26: 3159-71, 11 Oct 76 (Fre) [17] DL/77FEB387

[HYPOGLYCEMIC MEDICATIONS AND VASCULAR COMPLICATIONS OF DIABETES MELLITUS. CURRENT CONTROVERSY] Lubetzki J *Rev Prat* 26: 3173-83, 11 Oct 76 (Fre) DL/77FEB388

VASCULAR LESION

[PLACE AND RESPONSIBILITY OF VASCULAR LESIONS IN DIABETIC NEUROPATHIES] Pirart J *Rev Prat* 26: 3149-56, 11 Oct 76 (Fre) [61] DL/77FEB386

VASCULAR RECONSTRUCTION

SALVAGE OF THE DIABETIC FOOT BY VASCULAR RECONSTRUCTION. Karmody AM, Jacobs RL *Orthop Clin North Am* 7: 957-77, Oct 76 (Eng) DL/77FEB333

VASCULARIZED

ACUTE PYELONEPHRITIS SIMULATING POORLY VASCULARIZED RENAL NEOPLASM. NON-SPECIFICITY OF ANGIOGRAPHIC CRITERIA. Barth KH, Lightman NI, Ridolfi RL, Catalona WJ *J Urol* 116: 650-2, Nov 76 (Eng) DL/77FEB216

VASCULATURE

THE INFLUENCE OF GLUCAGON UPON THE RESPONSES OF THE HEPATIC ARTERIAL VASCULATURE TO VASODILATOR AGENTS [PROCEEDINGS]. Richardson PD, Withington PG *Br J Pharmacol* 57: 473p, Jul 76 (Eng) DL/77FEB17

VASCULITIS

VASCULITIS IN MATURITY-ONSET DIABETES MELLITUS [LETTER]. White DW *JAMA* 236: 2171, 8 Nov 76 (Eng) DL/77FEB217

THE ULTRASTRUCTURE OF THE REACTION OF ARTERIAL WALLS TO CHOLESTEROL CRYSTALS IN ATHEROEMBOLISM. Warren BA, Vales O *Br J Exp Pathol* 57: 67-77, Feb 76 (Eng) *DL/77FEB518

[EFFECT OF VARIOUS INHIBITORS ON OXIDATIVE ACTIVITY AND ULTRASTRUCTURE OF RAT LIVER MITOCHONDRIA] Latruffe N, Lenys D, Gaudemer Y, Bugnon C *R Soc Biol (Paris)* 169: 1290-5, 1975 (Fre) *DL/77FEB529

ENERGY STATE AND ULTRASTRUCTURE OF THE SUBSTRATE-DEPLETED HEART. Dhalla NS, Yates JC, Olson RE *Recent Adv Stud Cardiac Struct Metab* 1: 81-94, 1972 (Eng) *DL/77FEB654

UREA SYNTHESIS

STUDIES ON UREA SYNTHESIS, INSULIN DEGRADATION AND PHAGOCYTOSIS BY ISOLATED RAT KUPFFER CELLS. Wagle SR, Hofmann F, Decker K *Biochem Biophys Res Commun* 72: 448-55, 20 Sep 76 (Eng) DL/77FEB509

URETHANE

URETHANE-INDUCED HYPERGLYCEMIA IN RATS. Krzemien K, Lipowska-Zabawska L *Acta Physiol Pol* 27: 369-76, Jul-Aug 76 (Eng) DL/77FEB458

URINALYSIS

[CURRENT URINALYSIS] Neuhauser P *Zahnärztl Mitt* 66: 1044-6, 16 Oct 76 (Ger) DL/77FEB446

URINARY BLADDER

MUCOSAL AND SEROSAL EFFECTS OF INSULIN ON ION CONTENTS OF THE FROG URINARY BLADDER. Janacek K, Rybova R, Slavikova M *Physiol Bohemoslov* 25: 385-7, 1976 (Eng) DL/77FEB367

URINARY GLUCOSE

[COMPARISON OF VARIOUS SEMI-QUANTITATIVE TESTS FOR DETERMINATION OF URINARY GLUCOSE IN DIABETICS (AUTHORS TRANSL)] Dorchy H, Loeb H *Diabete Metab* 1: 87-9, Jun 75 (Fre) DL/77FEB96

URINE

[STUDY OF THE FUCOSE-RICH OLIGOSACCHARIDES IN THE URINE OF HEALTHY AND MELITURIC SUBJECTS WITH A, B AND O BLOOD GROUPS] Strecker G, Trentesaux-Chauvet C, Poitou A, Montreuil J *Biochimie* 58: 805-14, 1976 (Fre) DL/77FEB11

HUMAN C-PEPTIDE IMMUNOREACTIVITY (CPR) IN BLOOD AND URINE - EVALUATION OF A RADIOIMMUNOASSAY METHOD AND ITS CLINICAL APPLICATIONS. Kuzuya T, Saito T, Yoshida S, Matsuda A *Diabetologia* 12: 511-8, Oct 76 (Eng) DL/77FEB120

THE EXCRETION OF INSULIN IN URINE. El-Allawy RM, Sonne O, Gliemann J, Orskov H, Johansen K *Diabetologia* 12: 523-6, Oct 76 (Eng) DL/77FEB122

[AMOUNT OF ACETONE AND ETHYL ALCOHOL IN THE BLOOD AND URINE OF PATIENTS WITH DIABETES MELLITUS AND ISCHEMIC HEART DISEASE] Kamysheva EP, Sorochkina RM, Kapatsinskaja LK, Romanova LN, Danilova MI *Sov Med* 147-8, Apr 76 (Rus) DL/77FEB403

Diabetes Literature—Keyword Index

VESSEL

VESSEL

EFFECT OF ETHYLOESTRENOL ON FIBRINOLYSIS IN THE VESSEL WALL. Hedner U, Nilsson IM, Isacson S *Br Med J* 2: 729-31, 25 Sep 76 (Eng) DL/77FEB24

VESSEL, SILVER

MONCKEBERGS ARTERIOSCLEROSIS REVISITED: OR SILVER VESSELS AMONG THE OLD. Moskowitz M, Verani M *J Can Assoc Radiol* 27: 200-2, Sep 76 (Eng) DL/77FEB162

VIRGIN RAT

EFFECTS OF HYPOPHYSECTOMY ON ALLOXAN-DIABETIC, ARTERIOSCLEROTIC, BREEDER VS. NON-ARTERIOSCLEROTIC, VIRGIN RATS. Wexler BC *Atherosclerosis* 25: 13-30, Oct 76 (Eng) DL/77FEB515

VISCERAL

[THE SIGNIFICANCE OF STRESS INTENSITY FOR THE EMOTIONAL AND VISCERAL REACTIVITY, ESPECIALLY FOR BLOOD PRESSURE REGULATION] Hecht K, Hai NV, Moritz V, Hecht T *Acta Biol Med Ger* 35: 23-33, 1976 (Ger) DL/77FEB448

[CORRELATIONS BETWEEN HIPPOCAMPUS FUNCTION AND STRESSED LEARNING AND THEIR EFFECT ON CEREebro-VISCERAL REGULATION PROCESSES] Hecht K, Hai NV, Hecht T, Moritz V, Woosmann H *Acta Biol Med Ger* 35: 35-45, 1976 (Ger) DL/77FEB449

VITAMIN

[HORMONAL AND VITAMIN REGULATION OF GLUCOSE-6-PHOSPHATASES ACTIVITY IN THE LIVER] Vinogradov VV, Mandrik KA, Ostrovskii IuM *Ukr Biokhim Zh* 48: 421-5, Jul-Aug 76 (Rus) DL/77FEB417

VITAMIN B2

VITAMIN B2 METABOLISM IN THE ISOLATED PERFUSED RAT LIVER. Okuyama S, Ito S, Nishino Y *Gastroenterol Jpn* 11: 5-10, 1976 (Eng) DL/77FEB130

VITRECTOMY, PARS PLANA

ELEVATION OF INTRAOCULAR PRESSURE AFTER PARS PLANA VITRECTOMY. Weinberg RS, Peyman GA, Huamonte FU *Albrecht von Graefes Arch Klin Ophthalmol* 200: 157-61, 30 Aug 76 (Eng) DL/77FEB479

VITREO

[THE CENTRAL VITREO-RETINAL FIBROPLASTIC (EDEMATOUS-FIBROPLASTIC) SYNDROME (AUTHORS TRANSL)] Vodovozov AM *Klin Monatsbl Augenheilkd* 169: 212-25, Aug 76 (Ger) DL/77FEB227

VOLVULUS

VOVULUS OF THE SMALL BOWEL IN A DIABETIC PATIENT [LETTER]. Fitzgerald GA, Colgan B, Drury MI, O'Connell FX *Br Med J* 2: 945, 16 Oct 76 (Eng) DL/77FEB29

WATER

[SPECTROSCOPIC STUDIES ON THE SELF-ASSOCIATION MECHANISM OF BIOMEMBRANE LIPID COMPONENTS AND THEIR INTERACTION WITH WATER AND ALCOHOLS IN A NON-POLAR MEDIUM] Koval VH *Ukr Biokhim Zh* 47: 505-9, Jul-Aug 75 (Ukr) *DL/77FEB681

WATER FILTRATION

WATER FILTRATION OF THE FOREARM IN SHORT- AND LONG-TERM DIABETES MELLITUS. Poulsen HL, Nielsen SL *Diabetologia* 12: 437-40, Oct 76 (Eng) DL/77FEB111

WEANING

PLASMA INSULIN LEVELS IN WEANED PIGS FED PROTEIN OR ENERGY RESTRICTED DIETS. Atinmo T, Baldijao C, Pond WG, Barnes RH *J Nutr* 106: 1654-8, Nov 76 (Eng) DL/77FEB204

WEIGHT

EMOTIONAL LABELING AND OVEREATING IN OBESE AND NORMAL WEIGHT INDIVIDUALS. Slochower J *Psychosom Med* 38: 131-9, Mar-Apr 76 (Eng) *DL/77FEB629

WEIGHT LIFTER

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL AND GROWTH HORMONE LEVELS IN YOUNG WEIGHT LIFTERS] Lukaszewska J, Biczowa B, Bobilewicz D, Wilk M, Obuchowicz-Fidelus B *Endokrynol Pol* 27: 149-57, Mar-Apr 76 (Pol) *DL/77FEB549

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL, TESTOSTERONE AND GROWTH HORMONE LEVELS IN WEIGHT LIFTERS] Skierska E, Ustupka J, Biczowa B, Lukaszewska J *Endokrynol Pol* 27: 159-65, Mar-Apr 76 (Pol) *DL/77FEB550

WEIGHT LOSS

WEIGHT LOSS IN PATIENTS TREATED LONG-TERM WITH LEVODOPA. METABOLIC ASPECTS. Vardi J, Oberman Z, Rabey I, Streifler M, Ayalon D, Herzberg M *J Neurol Sci* 30: 33-40, Nov 76 (Eng) DL/77FEB201

WOMAN

MYOCARDIAL INFARCTION IN YOUNGER WOMEN. ASSOCIATED CLINICAL FEATURES AND RELATIONSHIP TO USE OF ORAL CONTRACEPTIVE DRUGS. Arthes FG, Masi AT *Chest* 70: 574-83, Nov 76 (Eng) DL/77FEB60

SERUM LIPID CHANGES DURING CONTRACEPTIVE ADMINISTRATION IN OBESE WOMEN: RELATION TO SERUM INSULIN LEVELS. Gershberg H, Hulse M, Galler M *J Clin Endocrinol Metab* 43: 861-5, Oct 76 (Eng) DL/77FEB168

[THE GLYCOGEN CONTENT OF BLOOD AND UTERINE TISSUE IN WOMEN WITH MYOMA AND ENDOMETRIOSIS (AUTHORS TRANSL)] Muck BR, Hommel G *Arch Gynaekol* 221: 129-37, 17 Sep 76 (Ger) DL/77FEB493

WORK

[MUSCULAR WORK IN THE THERAPY OF DIABETES MELLITUS] Berger M *Fortschr Med* 94: 1553-7, 7 Oct 76 (Ger) DL/77FEB136

XENOPSIN

COMPARISON STUDIES OF NEUROTENSIN AND XENOPSIN UPON PANCREATIC SECRETION IN THE DOG [PROCEEDINGS]. Ishida T, Kawamura K, Goto A, Nishina Y, Takahara J *Metabolism* 25: 1467, Nov 76 (Eng) DL/77FEB301

XENOTRANSPLANTATION

[XENOTRANSPLANTATION OF FETAL ENDOCRINE PANCREATIC TISSUE. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 690-9, 1976 (Fre) DL/77FEB61

YEAST

[TRANSPORT AND UTILIZATION OF ALDITOLS IN THE YEAST RHODOTORULA GRACILIS GLUTINIS (AUTHORS TRANSL)] Kloppel R, Hofer M *Arch Microbiol* 107: 329-34, 1 Apr 76 (Ger) *DL/77FEB706

[TRANSPORT AND UTILIZATION OF ALDITOLS IN THE YEAST RHODOTORULA GRACILIS GLUTINIS (AUTHORS TRANSL)] Kloppel R, Hofer M *Arch Microbiol* 107: 335-42, 1 Apr 76 (Ger) *DL/77FEB707

ZINC

EFFECT OF ZINC ON CELLS AND BIOMEMBRANES. Chvapil M *Med Clin North Am* 60: 799-812, Jul 76 (Eng) [42] *DL/77FEB605

Diabetes Literature—Author Index

Subject headings are included only under first author.

Achillea M

THE UPTAKE OF FREE FATTY ACID IN THE RAT HEART. Harris P, Achillea M, Gloster J. *Recent Adv Stud Cardiac Struct Metab* 7: 23-7, 1975 (Eng) *DL/77FEB663

Adams EB

RESEARCH ACHIEVEMENTS OF THE UNIVERSITY OF NATAL MEDICAL SCHOOL, 1951-1976. Adams EB. *S Afr Med J* 50: 1577-85, 25 Sep 76 (Eng) DL/77FEB405

AMEBIASIS (history); COMMUNITY MEDICINE (history); HEART DISEASES (history); HEMATOLOGY (history); HISTORICAL ARTICLE; HYPOGLYCEMIA (history); NUTRITION DISORDERS (history); PORPHYRIA (history); RESEARCH (history); SCHOOLS, MEDICAL (history); SOUTH AFRICA; TETANUS (history).

Adams PW

THE METABOLIC FATE OF PLASMA LIPOPROTEINS IN NORMAL SUBJECTS AND IN PATIENTS WITH INSULIN RESISTANCE AND ENDOGENOUS HYPERTRIGLYCERIDAEMIA. Kissebah AH, Alfarsi S, Adams PW, Wynn V. *Diabetologia* 12: 501-9, Oct 76 (Eng) DL/77FEB119

Adamson DG

DOMINANT INHERITANCE DIABETES MELLITUS. Tulloch JA, Adamson DG. *J R Coll Physicians Lond* 11: 86-90, Oct 76 (Eng) DL/77FEB214

Adamson U

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerasi E. *Diabete Metab* 1: 51-6, Mar 75 (Eng) DL/77FEB88

ACROMEGALY (physiopathology); ADULT; BLOOD SUGAR (metabolism); DOSE-RESPONSE RELATIONSHIP, DRUG; FEMALE; GLUCAGON (diagnostic use); GLUCOSE (pharmacodynamics); HUMAN; INSULIN (blood); MALE; SOMATOTROPIN (diagnostic use); TOLBUTAMIDE (diagnostic use).

Addison J

STUDIES OF HUMAN DIPLOID FIBROBLAST GROWTH. I. RESPONSES OF NORMAL AND HYPOPHYSECTOMIZED CELLS TO FIBROBLAST GROWTH FACTOR, INSULIN, AND SERUM. Jones KL, Addison J. *J Clin Endocrinol Metab* 43: 721-9, Oct 76 (Eng) DL/77FEB166

Adelstein AM

CANCER MORTALITY AND SACCHARIN CONSUMPTION IN DIABETICS. Armstrong B, Lea AJ, Adelstein AM, Donovan JW, White GC, Ruttle S. *Br J Prev Soc Med* 30: 151-7, Sep 76 (Eng) DL/77FEB19

Adlercreutz H

PHYSICAL ACTIVITY AND HORMONES. Adlercreutz H, Harkonen M, Kuoppasalmi K, Kosunen K, Naveri H, Reihnen S. *Adv Cardiol* 18: 144-57, 1976 (Eng) DL/77FEB461

ALDOSTERONE (blood); ANAEROBIC EXERCISE; ANGIOTENSIN II (blood); CATECHOLAMINES (blood); EXERCISE; GLUCAGON (blood); HORMONES (blood); HUMAN;

HYDROCORTISONE (blood); INSULIN (blood); LACTATES (blood); LH (blood); RENIN (blood); SEX HORMONES (blood); SOMATOTROPIN (blood); TIME FACTORS.

Agbaba O

[EFFECTS OF HISTONES ON PHAGOCYTOSIS AND PHAGOCYTIC METABOLISM] Agbaba O. *Rev Can Biol* 35: 25-31, Mar 76 (Fre) *DL/77FEB632

ANIMAL EXPERIMENTS (analysis); ENGLISH ABSTRACT; GLUCOSE (metabolism); GLYCOGEN (metabolism); GUINEA PIGS; HISTONES (pharmacodynamics); LACTATES (metabolism); LEUKOCYTES (physiology); OXYGEN CONSUMPTION; PHAGOCYTOSIS (drug effects); STAPHYLOCOCCUS.

Agricola H

[CLINICAL PROBLEMS OF PREMATURE LABOR. I. DIAGNOSIS OF THREATENING PREMATURE LABOR AND THE SCREENING PROCEDURE] Bayer H, Isel EP, Agricola H, Roigas E. *Zentralbl Gynaekol* 98: 1025-34, 1976 (Ger) DL/77FEB447

Ahmed SS

DIABETES MELLITUS AND LEFT VENTRICULAR FUNCTION. Ahmed SS, Regan TJ. *Compr Ther* 2: 51-7, Nov 76 (Eng) DL/77FEB53

ANIMAL; BLOOD SUGAR; CHRONIC DISEASE; COMPARATIVE STUDY; DIABETES MELLITUS (drug therapy, physiopathology); DOGS; ELECTROCARDIOGRAPHY; FEMALE; HEART RATE; HEART VENTRICLE (physiopathology); HUMAN; HYPOGLYCEMIC AGENTS (therapeutic use); MALE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Ahrens EH Jr

STEROL BALANCE IN HYPERLIPIDEMIC PATIENTS AFTER DIETARY EXCHANGE OF CARBOHYDRATE FOR FAT. Ahrens EH Jr. *J Lipid Res* 17: 97-106, Mar 76 (Eng) *DL/77FEB595

ADULT; AGED; CHOLESTEROL (blood); DIETARY CARBOHYDRATES; DIETARY FATS; FECES (analysis); FEMALE; HUMAN; HYPERLIPIDEMIA (blood); MALE; MIDDLE AGE; SQUALENE (blood); STEROLS (blood, metabolism); TRIGLYCERIDES (blood, metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Aimlt PP

SERUM INSULIN SECRETION BY ADULT MALAYSIANS. Jones JJ, Aimlt PP, Owyong LY, Kuttly MK. *Med J Malaysia* 30: 285-6, Jun 76 (Eng) DL/77FEB318

Aizawa M

HLA AND JUVENILE DIABETES MELLITUS IN THE JAPANESE [LETTER]. Wakasaka A, Aizawa M, Matsuura N, Nakagawa S, Nakayama E. *Lancet* 2: 970, 30 Oct 76 (Eng) DL/77FEB249

Akashi M

ULTRASTRUCTURAL STUDIES OF HUMAN ACUTE PANCREATITIS. Taura S, Tsunoda T, Yoshino R, HARADA N, Akashi M. *Gastroenterol Jpn* 10: 132-40, 1975 (Eng) DL/77FEB127

Albright KG

PLASMA GLUCAGON IN DIABETES RESULTING FROM TOTAL PANCREATECTOMY

[PROCEEDINGS]. Bloom SR, Barnes AJ, Bryant MG, Alberti KG. *Metabolism* 25: 1481-2, Nov 76 (Eng) DL/77FEB304

Albinus M

EFFECTS OF GROWTH HORMONE-RELEASE INHIBITING HORMONE (GH-RIH OR SOMATOSTATIN) ON SECRETORY PROCESSES IN STOMACH AND PANCREAS. PP. 407-12. Albinus M, Case RM, Reed JD, Shaw B, Smith PA, Gomez-Pan A, Hall R, Besser GM, Schally AV. *In: Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract. Baltimore, Univ Park Press, 1976. W1 102 5859 1975. (Eng) *DL/77FEB586*

ACETYLCHOLINE (antagonists & inhibitors); ANIMAL EXPERIMENTS (analysis); CARBACHOL (antagonists & inhibitors); CATS; DOSE-RESPONSE RELATIONSHIP, DRUG; GASTRIC MUCOSA (drug effects, secretion); MONOGRAPH (mortality); PANCREAS (drug effects, secretion); PENTAGASTRIN (antagonists & inhibitors); RATS; SECRETIN (antagonists & inhibitors); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics).

Aleksandrov AA

[RECONSTRUCTION OF A SINGLE CELLULAR POTASSIUM-SODIUM CHANNEL IN A LIPID BILAYER] Aleksandrov AA, Berestovskii GN, Volkova SP, Vostrikov IA, Zherelova OM. *Dokl Akad Nauk SSSR* 227: 723-6, 21 Mar 76 (Rus) *DL/77FEB545

ALGAE, GREEN (physiology); ELECTRIC CONDUCTIVITY; MEMBRANES, ARTIFICIAL; PHOSPHOLIPIDS; POTASSIUM; SODIUM.

Alexandre JH

TOTAL PANCREATECTOMY IN THE TREATMENT OF ACUTE NECROTISING AND HEMORRHAGIC PANCREATITIS. INDICATIONS-TECHNIQUE. Alexandre JH, Chambon H, Assan R. *Langenbecks Arch Chir* 340: 231-47, 23 Apr 76 (Eng) DL/77FEB255

ACUTE DISEASE; ADULT; AGED; DIABETES MELLITUS (etiology); FEMALE; HEMORRHAGE, GASTROINTESTINAL (etiology); HUMAN; MALE; MIDDLE AGE; NECROSIS; PANCREATECTOMY (methods); PANCREATITIS (complications, diagnosis, surgery); POSTOPERATIVE COMPLICATIONS (poisoning); PREOPERATIVE CARE.

Alfarsi S

THE METABOLIC FATE OF PLASMA LIPOPROTEINS IN NORMAL SUBJECTS AND IN PATIENTS WITH INSULIN RESISTANCE AND ENDOGENOUS HYPERTRIGLYCERIDAEMIA. Kissebah AH, Alfarsi S, Adams PW, Wynn V. *Diabetologia* 12: 501-9, Oct 76 (Eng) DL/77FEB119

Alric R

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A. *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77FEB83

Alsever RN

CLINICAL CORRELATIONS OF SERUM PROINSULIN-LIKE MATERIAL IN ISLET CELL TUMOURS. Alsever RN, Stjernholm MR,

Sussman KE, Mako ME, Rubenstein AH
Diabetologia 12: 527-30, Oct 76 (Eng)
DL/77FEB123
AGED; CASE REPORT; FEMALE; HUMAN;
HYPOGLYCEMIA; INSULIN (blood); ISLET
CELL TUMOR (blood, therapy); MALE;
MIDDLE AGE; PANCREATIC NEOPLASMS
(blood, therapy); PROINSULIN (blood);
STREPTOZOTOCIN (therapeutic use); UNITED
STATES GOVERNMENT SUPPORTED, N.I.H.;
UNITED STATES GOVERNMENT
SUPPORTED, NON-N.I.H.).

Altman N

NEUROENDOCRINE STUDIES OF DEPRES-
SIVE ILLNESS. Sachar EJ, Roffwarg HP, Gruen
PH, Altman N, Sassin J *Pharmakopsychiatr Neu-
ropsychopharmacol* 9: 11-7, Jan 76 (Eng)
DL/77FEB363

Amendt P

CLINICAL AND METABOLIC STUDIES IN
CHILDREN OF DIABETIC-MOTHERS.
Amendt P, Michaelis D, Hildmann W *En-
docrinologie* 67: 351-61, 1976 (Eng)
DL/77FEB70

ADOLESCENCE; CHILD DEVELOPMENT;
CHILD; CHILD, PRESCHOOL; DIABETES
MELLITUS, JUVENILE (etiology); FEMALE;
FOLLOW-UP STUDIES; GERMANY, EAST;
GLUCOSE TOLERANCE TEST; GLUCOSE
(metabolism); GROWTH; HUMAN;
HYPERINSULINISM (etiology); INFANT
MORTALITY; INFANT, NEWBORN;
LANGUAGE DEVELOPMENT; PREDIABETIC
STATE (metabolism); PREGNANCY IN
DIABETES; PREGNANCY; SPEECH.

Amoss M

CONTROL OF ANTERIOR PITUITARY HOR-
MONE SECRETION. HYPOTHALAMIC PEP-
TIDES AND THEIR INTERACTIONS. PP. 180-
95. Grant G, Vale W, Brazeau P, Rivier J,
Monahan M, Gilon C, Amoss M, Rivier C, Ling
N, Burgus R, Guillemin R *In: Lederis K, Cooper
KE, ed. Recent studies of hypothalamic function.*
Basel, Karger, 1974. WL 312 165r 1973. (Eng)
[39] *DL/77FEB588

Andel M

[METABOLIC EFFECT OF ADMINISTRATION
OF GLUCAGON AND A COMBINATION OF
GLUCAGON AND FRUCTOSE TO PATIENTS
WITH CIRRHOSIS OF THE LIVER AND TO
HEALTHY SUBJECTS (AUTHORS TRANSL.)]
Brodanova M, Brodan V, Andel M, Kuhn E *Sh
Lek* 78: 218-24, Aug 76 (Cze) DL/77FEB390

Anderson AJ

PREOPERATIVE RISK FACTORS AND AORTA-
CORONARY BYPASS GRAFT PATENCY.
Blumlein SL, Anderson AJ, Barboriak JJ, Rimm
AA, Walker J, Flemma R *J Thorac Cardiovasc
Surg* 72: 778-83, Nov 76 (Eng) DL/77FEB234

Anderson LD

EFFECTS OF HORMONES ON PROTEIN AND
AMINO ACID METABOLISM IN MAMMARY-
GLAND EXPLANTS OF MICE. Anderson LD,
Rillema JA *Biochem J* 158: 355-9, 15 Aug 76
(Eng) DL/77FEB506

AMINOISOBUTYRIC ACID (metabolism);
ANIMAL; DACTINOMYCIN
(pharmacodynamics); FEMALE;
HYDROCORTISONE (pharmacodynamics); IN
VITRO; INSULIN (pharmacodynamics);
LEUCINE (metabolism); MAMMAE
(metabolism); MICE; PREGNANCY;
PREGNANCY, ANIMAL; PROLACTIN
(antagonists & inhibitors, pharmacodynamics);
PROTEINS (biosynthesis); TIME FACTORS;
UNITED STATES GOVERNMENT
SUPPORTED, N.I.H.).

Diabetes Literature—Author Index

Andersson A

INSULIN BIOSYNTHESIS IN PANCREATIC
ISLETS ISOLATED FROM STARVED MICE.
Andersson A *Horm Metab Res* 8: 403-4, Sep 76
(Eng) DL/77FEB147

ANIMAL; GLUCOSE (pharmacodynamics); IN
VITRO; INSULIN (biosynthesis); ISLANDS OF
LANGERHANS (drug effects, metabolism);
LEUCINE (pharmacodynamics); MALE; MICE;
RATS; STARVATION; THEOPHYLLINE
(pharmacodynamics).

Anderton JL

PLASMA RENIN ACTIVITY IN DIABETIC AU-
TONOMIC NEUROPATHY. Campbell IW,
Ewing DJ, Anderton JL, Thompson JH, Horn
DB, Clarke BF *Eur J Clin Invest* 6: 381-5, 10 Sep
76 (Eng) DL/77FEB73

Andres R

EFFECTS OF ARTERIAL VERSUS VENOUS
SAMPLING ON ANALYSIS OF GLUCOSE
KINETICS IN MAN. McGuire EA, Helderma
JH, Tobin JD, Andres R, Berman M *Biochem J*
157: 565-73, 1 Sep 76 (Eng) DL/77FEB500

Angelakos ET

ADRENERGIC NEUROHORMONS IN THE
HEART OF HAMSTERS WITH HEREDITARY
MYOPATHY DURING CARDIAC HYPER-
TROPY AND FAILURE. Angelakos ET, Car-
ballo LC, Daniels JB, King MP, Bajusz E *Recent
Adv Stud Cardiac Struct Metab* 1: 262-78, 1972
(Eng) *DL/77FEB641

AGING; ANIMAL EXPERIMENTS (analysis);
DOPAMINE (metabolism); HAMSTERS; HEART
ENLARGEMENT (familial & genetic,
metabolism, pathology); HEART FAILURE;
CONGESTIVE (familial & genetic, metabolism,
pathology); HEART (growth & development);
MYOCARDIAL CONTRACTION;
MYOCARDIUM (metabolism, pathology);
NOREPINEPHRINE (metabolism); ORGAN
WEIGHT; TYROSINE (metabolism).

Ansell I

EFFECT OF THE HISTAMINE H2-RECEPTOR
ANTAGONIST, CIMETIDINE, ON GASTRIC
SECRETION AND SERUM GASTRIN DURING
INSULIN INFUSION IN MAN. Carter DC, For-
rest JA, Logan RA, Ansell I, Lidgard G, Heading
RC, Shearman DJ *Scand J Gastroenterol* 11: 565-
70, 1976 (Eng) DL/77FEB393

Aprile N

[DIABETES AND THE THIRD LIFE-PERIOD]
Codaccioni JL, Aprile N *Probl Actuels En-
docrinol Nutr serie* 17: 167-83, 1973 (Fre) [62]
DL/77FEB355

Apstein CS

EFFECT OF PALMITATE ON HYPoxic
MYOCARDIAL METABOLISM AND CON-
TRACTILITY. Apstein CS, Gmeiner R,
Brachfeld N *Recent Adv Stud Cardiac Struct
Metab* 1: 136-46, 1972 (Eng) *DL/77FEB635

AEROBICITY; ANIMAL EXPERIMENTS
(analysis); ANOXIA (metabolism); BIOLOGICAL
TRANSPORT, ACTIVE; BLOOD PRESSURE
(drug effects); CARDIAC OUTPUT (drug
effects); GLUCOSE (metabolism); GLYCOLYSIS
(drug effects); HEART RATE (drug effects);
HEART (drug effects, physiopathology); IN
VITRO; LACTATES (metabolism); LIPIDS
(metabolism); MYOCARDIAL CONTRACTION
(drug effects); MYOCARDIUM (metabolism);
OXYGEN CONSUMPTION; PALMITIC ACIDS
(pharmacodynamics); RATS.

Arakawa H

PEPTIC ULCER IN DIABETES MELLITUS.
Masuda H, Inoue S, Arakawa H, Koizumi K,
Kubo N *Gastroenterol Jpn* 11: 1-4, 1976 (Eng)
DL/77FEB128

Arakelian MC

LIPOLYTIC ACTIVITY OF SWINE ADIPO-
CYTES. Mersmann HJ, Brown LJ, Beuving RD,
Arakelian MC *Am J Physiol* 230: 1439-43, May
76 (Eng) *DL/77FEB700

Aralda D

INFLUENCE OF POLARIZING INFUSIONS ON
ANTHARRHYTHMIC EFFECTS OF BETA-
BLOCKERS. Rossi P, Aralda D, Cernigliaro C,
DAlerio M, Carcano G *G Ital Cardiol* 6: 620-7,
1976 (Eng) DL/77FEB126

Arcus AC

STUDIES WITH THE AUTOTRANSPLANTED
OVINE PANCREAS: GLUCAGON AND INSU-
LIN SECRETION. Arcus AC, Ellis MJ, Kirk RD,
Beaven DW, Donald RA, Hart DS, Holland GW,
Redekopp C *Aust J Biol Sci* 29: 223-36, Jul 76
(Eng) DL/77FEB496

ANIMAL; ARGININE (pharmacodynamics);
BUTYRATES (pharmacodynamics); DOSE-
RESPONSE RELATIONSHIP, DRUG;
FEMALE; GLUCAGON (pharmacodynamics,
secretion); HEPARIN (pharmacodynamics);
INSULIN (pharmacodynamics, secretion);
ISLANDS OF LANGERHANS (secretion);
PANCREAS (transplantation); SECRETORY
RATE (drug effects); SHEEP (physiology);
STIMULATION, CHEMICAL;
TRANSPLANTATION, AUTOLOGOUS.

Arends J

SOMATOSTATIN AND INSULIN RELEASE
FROM ISOLATED RAT PANCREATIC
ISLETS STIMULATED BY GLUCOSE.
Schauder P, McIntosh C, Arends J, Arnold R,
Freerichs H, Creutzfeldt W *FEBs Lett* 68: 225-7,
1 Oct 76 (Eng) DL/77FEB79

Argote RM

PROPRANOLOL EFFECT ON PLASMA GLU-
COSE, FREE FATTY ACID, INSULIN, AND
GROWTH HORMONE IN GRAVES DISEASE.
Ortigosa JL, Mendoza F, Argote RM, Garcia G,
Cervantes C, Parra A *Metabolism* 25: 1201-7,
Nov 76 (Eng) DL/77FEB260

Armstrong B

CANCER MORTALITY AND SACCHARIN CON-
SUMPTION IN DIABETICS. Armstrong B, Lea
AJ, Adelstein AM, Donovan JW, White GC,
Ruttile S *Br J Prev Soc Med* 30: 151-7, Sep 76
(Eng) DL/77FEB19

ADULT; AGE FACTORS; AGED;
CARCINOGENESIS (chemically induced);
CORONARY DISEASE (mortality); DIABETES
MELLITUS (complications, mortality);
ENGLAND; FEMALE; HUMAN; LIVER
NEOPLASMS (mortality); LUNG NEOPLASMS
(mortality); MALE; MIDDLE AGE;
NEOPLASMS (complications, mortality);
PANCREATIC NEOPLASMS (mortality); RISK;
SACCHARIN (adverse effects); SEX FACTORS;
SMOKING; TIME FACTORS; WALES.

Armstrong RB

DECAY OF SUCCINATE DEHYDROGENASE
ACTIVITY IN RAT SKELETAL MUSCLE
FOLLOWING STREPTOZOTOCIN INJE-
CTION. Armstrong RB, Iannuzzo CD *Horm Metab
Res* 8: 392-4, Sep 76 (Eng) DL/77FEB146

ANIMAL; BLOOD SUGAR (metabolism);
DIABETES MELLITUS (chemically induced,
enzymology); MALE; MUSCLES (drug effects,
enzymology); RATS; STREPTOZOTOCIN
(pharmacodynamics); SUCCINATE
DEHYDROGENASE (metabolism); TIME
FACTORS.

Arnold R

SOMATOSTATIN AND INSULIN RELEASE
FROM ISOLATED RAT PANCREATIC
ISLETS STIMULATED BY GLUCOSE.
Schauder P, McIntosh C, Arends J, Arnold R,

Diabetes Literature—Author Index

Baker R

Frerichs H, Creutzfeldt W *FEBS Lett* 68: 225-7, 1 Oct 76 (Eng) DL/77FEB79

Aronoff SL

EVIDENCE FOR AN INSULIN-INDEPENDENT ALPHA-CELL ABNORMALITY IN HUMAN DIABETES. Bennett PH, Aronoff SL, Unger RH *Metabolism* 25: 1527-9, Nov 76 (Eng) DL/77FEB316

Aronson S

EXPERIENCES WITH MONOCOMPONENT (MC) INSULIN IN THE TREATMENT OF JUVENILE DIABETES. Aronson S, Engleson G *Lakartidningen* 73: 3982-4, 10 Nov 76 (Swe) DL/77FEB243
CLINICAL RESEARCH; DIABETES MELLITUS, JUVENILE (drug therapy); DRUG EVALUATION; ENGLISH ABSTRACT; HUMAN; INSULIN ANTIBODIES (analysis); INSULIN, LENTE (therapeutic use).

Arpesella M

INSULIN SECRETION IN MIGRAINE: INFLUENCE ON THE BLOOD LEVELS OF TRYPTOPHAN. Poloni M, Nappi G, Bono G, Roggi C, Arpesella M, Virgilio P *Monogr Neural Sci* 3: 67-70, 1976 (Eng) DL/77FEB322

Arthes FG

MYOCARDIAL INFARCTION IN YOUNGER WOMEN. ASSOCIATED CLINICAL FEATURES AND RELATIONSHIP TO USE OF ORAL CONTRACEPTIVE DRUGS. Arthes FG, Masi AT *Chest* 70: 574-83, Nov 76 (Eng) DL/77FEB60

ADULT; AGE FACTORS; COMPARATIVE STUDY; CONTRACEPTIVES, ORAL (adverse effects); DIABETES MELLITUS (complications); FEMALE; HUMAN; HYPERCHOLESTEREMIA (complications); HYPERTENSION (complications); MYOCARDIAL INFARCT (chemically induced, complications, etiology); SEX FACTORS; SMOKING (complications); THROMBOEMBOLISM (etiology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Arts JP

OBSTETRICAL BRACHIAL PLEXUS INJURIES. A STUDY ON PERINATAL MORBIDITY. Vrouwenarts PE, Arts JP, Kinderneurolog PF *Ned Tijdschr Geneesk* 120: 1666-72, 2 Oct 76 (Dut) DL/77FEB329

Asakawa T

INFLUENCE ON ADIPOCYTE PLASMA MEMBRANE BOUND PROTEIN KINASE BY FEEDBACK REGULATOR. Ho R, Russell T, Asakawa T, Snyder RP *J Cyclic Nucleotide Res* 1: 349-58, 1975 (Eng) *DL/77FEB580

Ashwell M

HUMAN FAT CELL SIZING—A QUICK, SIMPLE METHOD. Ashwell M, Priest P, Bondoux M, Sower C, McPherson CK *J Lipid Res* 17: 190-2, Mar 76 (Eng) *DL/77FEB594
ADIPOSE TISSUE (cytology, ultrastructure); BIOPSY; COMPARATIVE STUDY; EVALUATION STUDIES; HUMAN; MATHEMATICS; METHODS.

Asplund K

[32P] ORTHOPHOSPHATE EFFLUX FROM PANCREATIC ISLETS: GRADED RESPONSE TO GLUCOSE STIMULATION. Pierce M, Bukowiecki L, Asplund K, Freinkel N *Horm Metab Res* 8: 358-61, Sep 76 (Eng) DL/77FEB142

Assan R

STUDIES ON EXPERIMENTAL HYPOTROPHY IN THE RAT. III. PLASMA INSULIN AND GLUCAGON. Girard JR, Chanez C, Kervran A, Tordet-Caridroit C, Assan R *Biol Neonate* 29: 262-6, 1976 (Eng) DL/77FEB13

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteceuvre M, Buneaux JJ *Diabetes Metab* 1: 101-11, Jun 75 (Eng) DL/77FEB91

ACETYLCHOLINE (pharmacodynamics); AMINOTRANSFERASES (secretion); ANIMAL; ARGININE (pharmacodynamics); CAERULEIN (pharmacodynamics); CHOLECYSTOKININ (pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG); FEMALE; GLUCAGON (secretion); GLUCOSE (pharmacodynamics); ISLANDS OF LANGERHANS (drug effects, secretion); KINETICS; LACTATE DEHYDROGENASE (secretion); MALE; NOREPINEPHRINE (pharmacodynamics); PANCREAS (enzymology); PANCREATOPEPTIDASE (secretion); RATS; SECRETIN (pharmacodynamics); TRYPSIN (secretion).

TOTAL PANCREATECTOMY IN THE TREATMENT OF ACUTE NECROTISING AND HEMORRHAGIC PANCREATITIS. INDICATIONS-TECHNIQUE. Alexandre JH, Chambon H, Assan R *Langenbecks Arch Chir* 340: 231-47, 23 Apr 76 (Eng) DL/77FEB255

Atinmo T

MATERNAL PROTEIN MALNUTRITION DURING GESTATION ALONE AND ITS EFFECTS ON PLASMA INSULIN LEVELS OF THE PREGNANT PIG, ITS FETUSES AND THE DEVELOPING OFFSPRING. Atinmo T, Baldijao C, Pond WG, Barnes RH *J Nutr* 106: 1647-53, Nov 76 (Eng) DL/77FEB203

ANIMAL; COMPARATIVE STUDY; DIETARY PROTEINS; FEMALE; FETAL BLOOD (metabolism); GESTATIONAL AGE; INSULIN (blood); MALE; MATERNAL-FETAL EXCHANGE; PREGNANCY COMPLICATIONS; PREGNANCY; PROTEIN DEFICIENCY (blood); SWINE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

PLASMA INSULIN LEVELS IN WEANED PIGS FED PROTEIN OR ENERGY RESTRICTED DIETS. Atinmo T, Baldijao C, Pond WG, Barnes RH *J Nutr* 106: 1654-8, Nov 76 (Eng) DL/77FEB204

ANIMAL; CALORIC INTAKE; CASEIN; DIETARY PROTEINS (therapeutic use); ENERGY METABOLISM; INSULIN (blood); MALE; PROTEIN DEFICIENCY (blood, diet therapy); PROTEIN-CALORIE MALNUTRITION (blood); SOY BEANS; SWINE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); WEANING.

Atkins RF

GLUCAGON SECRETION FROM THE PERFUSED RAT PANCREAS FOLLOWING ACUTE AND CHRONIC STREPTOZOTOCIN. Weir GC, Atkins RF, Martin DB *Metabolism* 25: 1519-21, Nov 76 (Eng) DL/77FEB314

Aubert R

METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E *Diabetes Metab* 1: 77-85, Jun 75 (Eng) DL/77FEB95

Aurbach GD

HOLOCATALYTIC STATE OF ADENYLATE CYCLASE IN TURKEY ERYTHROCYTE MEMBRANES: FORMATION WITH GUANYLYLMIDODIPHOSPHATE PLUS ISOPROTERENOL WITHOUT EFFECT ON AFFINITY OF BETA-RECEPTOR. Spiegel AM, Brown EM, Fedak SA, Woodard CJ, Aurbach GD *J Cyclic Nucleotide Res* 2: 47-56, 1976 (Eng) *DL/77FEB583

Avramovic-Zikic O

STUDIES ON ALLOSTERIC PHENOMENA IN GLYCOGEN PHOSPHORYLASE B. Madsen

NB, Avramovic-Zikic O, Lue PF, Honikel KO *Mol Cell Biochem* 11: 35-50, 26 Mar 76 (Eng) [59] *DL/77FEB613

Ayalon D

WEIGHT LOSS IN PATIENTS TREATED LONG-TERM WITH LEVODOPA. METABOLIC ASPECTS. Vardi J, Oberman Z, Rabey I, Streifler M, Ayalon D, Herzberg M *J Neurol Sci* 30: 33-40, Nov 76 (Eng) DL/77FEB201

Aydin I

THE EFFECTS OF GLUCAGON ADMINISTRATION TO NONDIABETICS AND DIABETICS. Unger RH, Aydin I, Nakabayashi H, Srikant CB, Raskin P *Metabolism* 25: 1523-6, Nov 76 (Eng) DL/77FEB315

THE EFFECTS OF ACUTE AND CHRONIC INSULIN ADMINISTRATION ON PLASMA IRG LEVELS IN HUMAN DIABETES. Raskin P, Aydin I, Unger RH *Metabolism* 25: 1531-3, Nov 76 (Eng) DL/77FEB317

Babin P

[DIABETES MELLITUS IN PHEOCHROMOCYTOMA] Sudre Y, Becq-Giraudon B, Pouget-Abadie JF, Boutaud P, Barbier J, Meriel P, Gasquet C, Babin P *Sem Hop Paris* 52: 1893-902, 16 Oct 76 (Fre) DL/77FEB399

Bada V

MYOCARDIAL CELL DAMAGE DUE TO ETHANOL. Gvozjak J, Borovic F, Bada V, Kruty F, Niederland TR, Gvozjak J *Recent Adv Stud Cardiac Struct Metab* 7: 451-7, 1975 (Eng) *DL/77FEB675

Bagger JP

THE INSULIN RECEPTOR IN NORMAL AND OBESE PERSONS. Beck-Nielsen H, Pedersen O, Bagger JP, Sorensen NS *Acta Endocrinol (Kbh)* 83: 565-75, Nov 76 (Eng) DL/77FEB456

Bajusz E

ADRENERGIC NEUROHUMORS IN THE HEART OF HAMSTERS WITH HEREDITARY MYOPATHY DURING CARDIAC HYPERTROPHY AND FAILURE. Angelakos ET, Carballo LC, Daniels JB, King MP, Bajusz E *Recent Adv Stud Cardiac Struct Metab* 1: 262-78, 1972 (Eng) *DL/77FEB641

Baker GT 3rd

INSECT FLIGHT MUSCLE: MATURATION AND SENESCENCE. Baker GT 3rd *Gerontology* 22: 334-61, 1976 (Eng) *DL/77FEB561

AGE FACTORS; AGING; ANIMAL EXPERIMENTS (analysis); ARGININE (metabolism); FEMALE; FLIGHT, ANIMAL; GLYCOGEN (metabolism); INSECTS (physiology); MALE; MITOCHONDRIA, MUSCLE (enzymology); MUSCLES (metabolism); OXIDOREDUCTASES (metabolism); SEX FACTORS.

Baker R

THE INCORPORATION OF RADIOACTIVE FATTY ACIDS AND OF RADIOACTIVE DERIVATIVES OF GLUCOSE INTO THE PHOSPHOLIPIDS OF SUBSYNAPTOSOMAL FRACTIONS OF CEREBRAL CORTEX. Baker R, Dowdall MJ, Whittaker VP *Biochem J* 154: 65-75, 15 Jan 76 (Eng) *DL/77FEB715
ACETYLCHOLINE (metabolism); ANIMAL EXPERIMENTS (analysis); ARACHIDONIC ACIDS (metabolism); CEREBRAL CORTEX (metabolism); CHOLINESTERASES (metabolism); CYTOCHROME OXIDASE (metabolism); FATTY ACIDS (metabolism); GLUCOSE (metabolism); GUINEA PIGS; LACTATE DEHYDROGENASE (metabolism); MICROSOMES (metabolism); MONOAMINE OXIDASE (metabolism); NERVE TISSUE PROTEINS (metabolism); NUCLEOTIDES (metabolism); NADPH CYTOCHROME C

Diabetes Literature—Author Index

Balarac N

REDUCTASE (metabolism); OLEIC ACIDS (metabolism); PALMITATES; PHOSPHATIDYL CHOLINE (metabolism); PHOSPHATIDYL ETHANOLAMINE (metabolism); PHOSPHATIDYL INOSITOL (metabolism); PHOSPHATIDYL SERINE (metabolism); PHOSPHOLIPIDS (biosynthesis); SYNAPTIC VESICLES (metabolism); SYNAPTOSOMES (metabolism).

Balarac N

DIABETIC RETINOPATHY AND PROLACTIN [LETTER]. Harter M, Balarac N, Pourcher P, Koslowski JM, Krebs B, Ramaioli A *Lancet* 2: 961-2, 30 Oct 76 (Eng) DL/77FEB248

Balazs R

BIOCHEMICAL DISSECTION OF THE CEREBELLUM—FUNCTIONAL PROPERTIES OF THE GLOMERULUS PARTICLES. PP. 427-36. Wilson JE, Wilkin GP, Balazs R *Ino Berl S, et al., ed. Metabolic compartmentation and neurotransmission. New York, Plenum Press, 1975. W3 N1355 1974m. (Eng) *DL/77FEB516*

METABOLIC PROPERTIES OF A PURIFIED PREPARATION OF LARGE FRAGMENTS OF THE CEREBELLAR GLOMERULI: GLUCOSE METABOLISM AND AMINO ACID UPTAKE. Wilson JE, Wilkin GP, Balazs R *J Neurochem* 26: 957-65, May 76 (Eng) *DL/77FEB600

Baldijao C

MATERNAL PROTEIN MALNUTRITION DURING GESTATION ALONE AND ITS EFFECTS ON PLASMA INSULIN LEVELS OF THE PREGNANT PIG, ITS FETUSES AND THE DEVELOPING OFFSPRING. Atinmo T, Baldijao C, Pond WG, Barnes RH *J Nutr* 106: 1647-53, Nov 76 (Eng) DL/77FEB203

PLASMA INSULIN LEVELS IN WEANED PIGS FED PROTEIN OR ENERGY RESTRICTED DIETS. Atinmo T, Baldijao C, Pond WG, Barnes RH *J Nutr* 106: 1654-8, Nov 76 (Eng) DL/77FEB204

Baltieri M

[PREVENTION OF ARTERIOSCLEROSIS DURING CHILDHOOD: PRELIMINARY RESEARCH] Nigro N, Benso L, Martini A, Baltieri M, Brunet MR, Iudicello P *Minerva Pediatr* 27: 288-312, 18 Feb 75 (Ita) *DL/77FEB611

Banecki H

[HIGH-PROTEIN BREAD FOR DIABETICS] Rojszykowska E, Szelnerowa T, Banecki H, Lawecki J *Pol Tyg Lek* 31: 1729-31, 4 Oct 76 (Pol) DL/77FEB348

Bapat SK

CENTRALLY MEDIATED HYPOCHOLESTEROLAEMIC RESPONSE OF INSULIN IN DOGS. Barthwal KC, Singh KN, Bapat V, Bapat SK *Indian J Physiol Pharmacol* 20: 136-40, Jul-Sep 76 (Eng) DL/77FEB150

Bapat V

CENTRALLY MEDIATED HYPOCHOLESTEROLAEMIC RESPONSE OF INSULIN IN DOGS. Barthwal KC, Singh KN, Bapat V, Bapat SK *Indian J Physiol Pharmacol* 20: 136-40, Jul-Sep 76 (Eng) DL/77FEB150

Bar HP

ADRENALINE-INDUCED DESENSITIZATION OF LIVER ADENYLATE CYCLASE. Lam V, Bar HP *Biochem Pharmacol* 25: 2103-4, 15 Sep 76 (Eng) DL/77FEB513

Bar RS

HORMONAL REGULATION OF THE AFFINITY AND CONCENTRATION OF HORMONE RECEPTORS IN TARGET CELLS. DeMeyts P, Kahn CR, Roth J, Bar RS *Metabolism* 25: 1365-70, Nov 76 (Eng) DL/77FEB275

Barbeau A

ENDOCRINE AND EXTRA-ENDOCRINE STUDIES OF HYPOTHALAMIC HORMONES IN MAN. PP. 196-206. Kastin AJ, Schally AV, Ehrensing RH, Barbeau A *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function. Basel, Karger, 1974. WL 312 165r 1973. (Eng) [44] *DL/77FEB590*

Barber DC

GASTRIC EMPTYING OF SOLID MEALS IN DIABETICS. Scarpello JH, Barber DC, Hague RV, Cullen DR, Sladen GE *Br Med J* 2: 671-3, 18 Sep 76 (Eng) DL/77FEB22

Barbier J

[DIABETES MELLITUS IN PHEOCHROMOCYTOMA] Sudre Y, Becu-Giraudon B, Pouget-Abadie JF, Boutaud P, Barbier J, Meriel P, Gasquet C, Babin P *Sem Hop Paris* 52: 1893-902, 16 OCT 76 (Fre) DL/77FEB399

Barboriak JJ

PREOPERATIVE RISK FACTORS AND AORTA-CORONARY BYPASS GRAFT PATENCY. Blumlein SL, Anderson AJ, Barboriak JJ, Rimm AA, Walker J, Flemma R *J Thorac Cardiovasc Surg* 72: 778-83, Nov 76 (Eng) DL/77FEB234

Barbosa J

SPECIAL PROBLEMS IN DIABETIC RENAL TRANSPLANTATION. Simmons RL, Payne WD, Sutherland DE, Howard RJ, Goetz FC, Barbosa J, Kjellstrand CM, Najarian JS *Urol Clin North Am* 3: 691-9, Oct 76 (Eng) DL/77FEB424

Barnes AJ

PLASMA GLUCAGON IN DIABETES RESULTING FROM TOTAL PANCREATECTOMY [PROCEEDINGS]. Bloom SR, Barnes AJ, Bryant MG, Alberti KG *Metabolism* 25: 1481-2, Nov 76 (Eng) DL/77FEB304

Barnes RH

MATERNAL PROTEIN MALNUTRITION DURING GESTATION ALONE AND ITS EFFECTS ON PLASMA INSULIN LEVELS OF THE PREGNANT PIG, ITS FETUSES AND THE DEVELOPING OFFSPRING. Atinmo T, Baldijao C, Pond WG, Barnes RH *J Nutr* 106: 1647-53, Nov 76 (Eng) DL/77FEB203

PLASMA INSULIN LEVELS IN WEANED PIGS FED PROTEIN OR ENERGY RESTRICTED DIETS. Atinmo T, Baldijao C, Pond WG, Barnes RH *J Nutr* 106: 1654-8, Nov 76 (Eng) DL/77FEB204

Barrett B

HYPERALIMENTATION IN THE MANAGEMENT OF CHRONIC INFLAMMATORY INTESTINAL DISEASE. Dean RE, Campos MM, Barrett B *Dis Colon Rectum* 19: 601-4, Oct 76 (Eng) DL/77FEB62

Bartels O

[ACUTE SIDE-EFFECTS OF DRUGS. CAUSES AND PREVENTION] Bartels O *Fortschr Med* 94: 1532-40, 1543, 7 Oct 76 (Ger) DL/77FEB134

ANALGESICS AND ANTIPYRETICS (adverse effects); ANTICOAGULANTS (adverse effects); APPETITE DEPRESSANTS (adverse effects); DRUG THERAPY (adverse effects); ENGLISH ABSTRACT; HEMORRHAGE (chemically induced); HUMAN; HYPNOTICS AND SEDATIVES (adverse effects); HYPOGLYCEMIA (chemically induced); SELF MEDICATION; SULFONYLUREA COMPOUNDS (adverse effects).

Barth KH

ACUTE PYELONEPHRITIS SIMULATING POORLY VASCULARIZED RENAL NEOPLASM. NON-SPECIFICITY OF ANGIOGRAPHIC CRITERIA. Barth KH, Lightman NI,

Ridolfi RL, Catalona WJ *J Urol* 116: 650-2, Nov 76 (Eng) DL/77FEB216

ACUTE DISEASE: AGED; ANGIOGRAPHY; CASE REPORT; DIABETIC NEPHROPATHIES (radiography); DIAGNOSTIC ERRORS; HUMAN; KIDNEY CALCULI (pathology); KIDNEY NEOPLASMS (blood supply, radiography); KIDNEY (pathology); MALE; NEPHRECTOMY; PHLEBOGRAPHY; PYELONEPHRITIS (pathology, radiography); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Barthwal KC

CENTRALLY MEDIATED HYPOCHOLESTEROLAEMIC RESPONSE OF INSULIN IN DOGS. Barthwal KC, Singh KN, Bapat V, Bapat SK *Indian J Physiol Pharmacol* 20: 136-40, Jul-Sep 76 (Eng) DL/77FEB150

ANIMAL; BRAIN (physiology); CHOLESTEROL (blood); CROSS CIRCULATION; DEPRESSION, CHEMICAL; DOGS; FEMALE; INJECTIONS, INTRAVENOUS; INJECTIONS, INTRAVENOUS; INSULIN (administration & dosage, pharmacodynamics); MALE; SPINAL CORD (physiology); VAGOTOMY; VAGUS NERVE (physiology).

Bartle WR

USE OF SULFATED INSULIN IN INSULIN RESISTANCE [LETTER]. Bartle WR *Am J Hosp Pharm* 33: 874-9, Sep 76 (Eng) DL/77FEB466

DIABETES MELLITUS (drug therapy); HUMAN; INSULIN RESISTANCE; INSULIN (analogs & derivatives); INSULIN (therapeutic use).

Bartuska DG

HUMOR MANIFESTATIONS OF NEOPLASMS. Bartuska DG *Semin Oncol* 2: 405-9, Dec 75 (Eng) DL/77FEB401

CUSHINGS SYNDROME (metabolism); ERYTHROPOIETIN (secretion); HORMONES (biosynthesis, secretion); HORMONES, ECTOPIC (secretion); HUMAN; HYPERCALCEMIA (etiology, therapy); HYPOGLYCEMIA (etiology); NEOPLASMS (complications, metabolism, physiopathology); NEOPLASTIC ENDOCRINE-LIKE SYNDROMES (complications); VASOPRESSIN (secretion).

Basabe JC

EVIDENCE FOR A HYPOPHYSEAL FACTOR THAT STIMULATES INSULIN SECRETION BY THE PANCREAS (INSULOTROPINE) Chieri RA, Basabe JC, Farina JM *Horm Metab Res* 8: 329-32, Sep 76 (Eng) DL/77FEB137

Basdevant A

[PATHOGENESIS, PHYSIOPATHOLOGY, AND EPIDEMIOLOGY OF DIABETIC MICROANGIOPATHY] Hauteclouverture M, Basdevant A, Slama G, Tchobroutsky G *Rev Prat* 26: 3085-93, 11 Oct 76 (Fre) DL/77FEB381

Bastenic PA

[DIABETES AND AUTOIMMUNE DISEASES (AUTHORS TRANSL)] Bastenic PA *Diabetic Metab* 1: 3-6, Mar 75 (Fre) DL/77FEB85

ADDISON'S DISEASE (etiology); ADRENAL GLANDS (immunology); ANEMIA, PERNICIOUS (etiology); AUTOIMMUNE DISEASES (etiology); DIABETES MELLITUS (complications); ENGLISH ABSTRACT; FEMALE; GASTRIC MUCOSA (immunology); HUMAN; HYPERTHYROIDISM (etiology); HYPOTHYROIDISM (etiology); MALE; THYROID GLAND (immunology).

Basu TK

EFFECT OF DIETARY SUBSTITUTION OF SUCROSE AND ITS CONSTITUENT MONOSACCHARIDES ON THE ACTIVITY OF AROMATIC HYDROXYLASE AND THE LEVEL OF CYTOCHROME P-450 IN HEPATIC MICROSOMES OF GROWING

Diabetes Literature—Author Index

Benedict GW

RATS. Basu TK, Dickerson JW, Parke DV *Nutr Metab* 18: 302-9, 1975 (Eng) *DL/77FEB614
ANIMAL EXPERIMENTS (analysis); BIPHENYL COMPOUNDS (metabolism); CYTOCHROME P-450 (metabolism); DIETARY CARBOHYDRATES; FRUCTOSE (pharmacodynamics); GLUCOSE (pharmacodynamics); HYDROXYLASES (metabolism); MALE; MICROSOMES, LIVER (drug effects, enzymology); RATS; STARCH (pharmacodynamics); SUCROSE (pharmacodynamics).

Bates DJ

GROWTH HORMONE, CYCLIC NUCLEOTIDES AND THE RAPID CONTROL OF TRANSLATION IN HEART MUSCLE. Mowbray J, Davies JA, Bates DJ, Jones CJ *Biochem J* 152: 583-92, Dec 75 (Eng) *DL/77FEB712

Batten JC

MECONIUM ILEUS EQUIVALENT IN ADULTS WITH CYSTIC FIBROSIS OF PANCREAS: A REPORT OF SIX CASES. Hodson ME, Mearns MB, Batten JC *Br Med J* 2: 790-1, 2 Oct 76 (Eng) DL/77FEB27

Battistelli F

[LONG-TERM PROGNOSIS OF INFANTILE DIABETES (EDITORIAL)] Lestrade H, Besse J, Billaud L, Battistelli F, Tric F, Lestrade F *Nouv Presse Med* 6: 2297-8, 23 Oct 76 (Fre) DL/77FEB345

Baumann R

INSULIN KINETIC, GLUCOSE TOLERANCE, AND LIPID METABOLISM IN GENETICALLY SPONTANEOUS-HYPERTENSIVE RATS. Baumann R, Moritz V, Godicke W, Postnow JW, Ziegler M *Acta Biol Med Ger* 35: k 33-9, 1976 (Eng) DL/77FEB451
ANIMAL; BLOOD PRESSURE; BLOOD SUGAR (metabolism); CHOLESTEROL (blood); HEART RATE; HYPERTENSION (familial & genetic); INSULIN (blood); LIPIDS (blood); RATS; TRIGLYCERIDES (blood).

Bayer H

[CLINICAL PROBLEMS OF PREMATURE LABOR. 1. DIAGNOSIS OF THREATENING PREMATURE LABOR AND THE SCREENING PROCEDURE] Bayer H, Issel EP, Agricola H, Roigas E *Zentralbl Gynaekol* 98: 1025-34, 1976 (Ger) DL/77FEB447
ADOLESCENCE; ADULT; BIRTH WEIGHT; ENGLISH ABSTRACT; FAMILY CHARACTERISTICS; FEMALE; HUMAN; INFANT, NEWBORN; LABOR, PREMATURE (diagnosis, etiology); MATERNAL AGE; PREGNANCY IN DIABETES (complications); PREGNANCY; SMOKING (complications).

Bazzarre TL

HUMAN GROWTH HORMONE CHANGES WITH AGE. PP. 261-70. Bazzarre TL, Johanson AJ, Huseman CA, Varma MM, Blizzard RM *In: Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB182
ADOLESCENCE; ADULT; AGED; AGING; BODY HEIGHT; BODY WEIGHT; CALCIUM (blood); CHILD; CIRCADIAN RHYTHM; CREATININE (blood); FEMALE; GLUCOCORTICOIDS (blood); HUMAN; HYDROXYPROLINE (blood); HYPOPHYSITARISM (blood); INSULIN (diagnostic use); LEVODOPA (diagnostic use); MALE; MIDDLE AGE; MONOGRAPH (mortality); NITROGEN (blood); PROLACTIN (blood); SLEEP; SOMATOTROPIN (blood, diagnostic use); TESTOSTERONE (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).*

Beard RW

THE EFFECT OF ORAL RITODRINE ON MATERNAL AND FETAL CARBOHYDRATE METABOLISM. Blouin D, Murray MA, Beard RW *Br J Obstet Gynaecol* 83: 711-5, Sep 76 (Eng) DL/77FEB8

Beasley N

[3 INCIDENTAL OBSERVATIONS OF PACHYDERMO-PERIOSTOSIS] Djian A, Sebaoun J, Beasley N *Rev Rhum Mal Osteoarthr* 43: 528-32, Jul-Sep 76 (Fre) DL/77FEB389

Beaven DW

STUDIES WITH THE AUTOTRANSPLANTED OVINE PANCREAS: GLUCAGON AND INSULIN SECRETION. Arcus AC, Ellis MJ, Kirk RD, Beaven DW, Donald RA, Hart DS, Holland GW, Redekopp C *Aust J Biol Sci* 29: 223-36, Jul 76 (Eng) DL/77FEB496

Beck-Nielsen H

A STUDY OF INSULIN RECEPTORS IN HUMAN MONONUCLEAR LEUCOCYTES. Pedersen O, Beck-Nielsen H *Acta Endocrinol (Kbh)* 83: 556-64, Nov 76 (Eng) DL/77FEB455

THE INSULIN RECEPTOR IN NORMAL AND OBSE PERSONS. Beck-Nielsen H, Pedersen O, Bagger JP, Sorensen NS *Acta Endocrinol (Kbh)* 83: 565-75, Nov 76 (Eng) DL/77FEB456
ADULT; BINDING SITES; BLOOD SUGAR; FASTING; FEMALE; HUMAN; INSULIN (blood); LEUCOCYTES (metabolism); MALE; OBESITY (blood); RECEPTORS, HORMONE.

Becq-Giraudon B

[ROLE OF PERHEXILINE MALEATE AND BETA BLOCKING AGENTS IN THE DEVELOPMENT OF SEVERE HYPOGLYCEMIA (LETTER)] Sudre Y, Becq-Giraudon B, Pouget-Abadie JF, Demange J, Boutaud PH *Nouv Presse Med* 5: 1999, 25 Sep 76 (Fre) DL/77FEB341

[DIABETES MELLITUS IN PHEOCHROMOCYTOMA] Sudre Y, Becq-Giraudon B, Pouget-Abadie JF, Boutaud P, Barbier J, Meriel P, Gasquet C, Babin P *Sem Hop Paris* 52: 1893-902, 16 OCT 76 (Fre) DL/77FEB399

Bedetti CD

INFLUENCE OF THE HYPOTHYROIDISM ON MITOCHONDRIAL PROTEIN SYNTHESIS. de Favelukes SS, de Tarlovsky MS, Bedetti CD, Stoppani AO *Acta Physiol Lat Am* 25: 107-11, 1975 (Eng) *DL/77FEB688

Beebe DC

DIFFERENTIAL SYNTHESIS OF CRYSTALLIN AND NONCRYSTALLIN POLYPEPTIDES DURING LENS FIBER CELL DIFFERENTIATION IN VITRO. Beebe DC, Piatigorsky Exp Eye Res 22: 237-49, Mar 76 (Eng) *DL/77FEB552

ANIMAL EXPERIMENTS (analysis); CELL DIFFERENTIATION; CHICK EMBRYO; CRYSTALLINS (biosynthesis); EPITHELIUM (embryology, metabolism); LENS; CRYSTALLINE (embryology, metabolism); PEPTIDES (biosynthesis).

Beischer W

HUMAN C-PEPTIDE. PART II: CLINICAL STUDIES. Beischer W, Heinze E, Keller L, Raptis S, Kerner W, Pfeiffer EF *Klin Wochenschr* 54: 717-25, 1 Aug 76 (Eng) DL/77FEB228
C-PEPTIDE (blood); CHROMATOGRAPHY, GEL; DIABETES MELLITUS (blood); DIABETES MELLITUS, JUVENILE (blood); GLIBENCLAMIDE (pharmacodynamics); GLUCOSE (pharmacodynamics); HUMAN; INSULIN (blood); PANCREATIC HORMONES (blood); PEPTIDES (blood).

[RADIOIMMUNOLOGIC DETERMINATION OF STH, INSULIN, AND C-PEPTIDE. INDICA-

TION, FUNCTIONAL TESTS, INTERPRETATION OF THE FINDINGS] Schroder KE, Raptis S, Beischer W *Med Welt* 27: 1720-5, 10 Sep 76 (Ger) DL/77FEB257

Bela P

[CLINICAL EXPERIENCE WITH THE NEW HUNGARIAN GLIBENCLAMIDE PRODUCT (GILEMAL)] Bela P, Miklos G *Orv Hetil* 117: 2792-4, 14 Nov 76 (Hun) DL/77FEB335
BLOOD SUGAR; DIABETES MELLITUS (drug therapy); GLIBENCLAMIDE (therapeutic use); INSULIN (biosynthesis, blood).

Belanger A

MULTIPOTENT LIPOTROPIC HORMONES. IN SEARCH OF A PITUITARY CELL PRODUCING MULTIPOTENT LPH. Furth J, Chretien M, Lis M, Belanger A, Moy P, Grauman J *Arch Pathol* 99: 572-81, Nov 75 (Eng) *DL/77FEB710

Belforte L

DOPAMINE AND INHIBITION OF PROLACTIN AND GROWTH-HORMONE SECRETION. Massara F, Camanni F, Belforte L, Molinatti GM *Lancet* 1: 913, 24 Apr 76 (Eng) *DL/77FEB606

Bell JE

THE KINETIC MECHANISM OF BOVINE MILK GALACTOSYLTRANSFERASE. THE ROLE OF ALPHA-LACTALBUMIN. Bell JE, Beyer TA, Hill RL *J Biol Chem* 251: 3003-13, 25 May 76 (Eng) *DL/77FEB571

ACETYLGLUCOSAMINE (metabolism); BINDING SITES; CATTLE; GALACTOSYLTRANSFERASES (metabolism); GLUCOSE (metabolism); KINETICS; LACTALBUMIN (pharmacodynamics); LACTOSE SYNTHETASE (metabolism); MANGANESE (pharmacodynamics); MILK (enzymology); MODELS, CHEMICAL; N-ACETYLGLUCOSAMINE SYNTHETASE (metabolism); OVALBUMIN (metabolism); PROTEIN BINDING; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.; URIDINE DIPHOSPHATE GALACTOSE (metabolism); URIDINE DIPHOSPHATE GLUCOSE (metabolism).

Bell PR

THE USE OF FICOLL IN THE SEPARATION OF VIABLE ISLETS OF LANGERHANS FROM THE RAT PANCREAS. Nash JR, Horlor M, Bell PR *Transplantation* 22: 411-2, Oct 76 (Eng) DL/77FEB415

Bell RM

A HIGHLY SENSITIVE ASSAY FOR MICROSOMAL DIACYLGLYCEROL ACYLTRANSFERASE ACTIVITY FROM ISOLATED FAT CELLS. Bell RM, Miller Y *Anal Biochem* 71: 436-43, Apr 76 (Eng) *DL/77FEB702
ACYLTRANSFERASES (metabolism); ADIPOSE TISSUE (enzymology); ALCOHOL, ETHYL (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); EDTA (pharmacodynamics); ENZYME ACTIVATION (drug effects); FEMALE; KINETICS; MAGNESIUM (pharmacodynamics); METHODS; MICROCHEMISTRY; MICROSOMES (drug effects, enzymology); PHILIPPINES (physiology); POLYSORBATES (pharmacodynamics); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Benedict GW

BLOOD GLUCOSE MONITORING IN SYMPTOMATIC HYPOGLYCEMIA. Cole RA, Benedict GW, Margolis S, Kowarski A *Diabetes* 25: 984-8, Oct 76 (Eng) DL/77FEB108

Benjamin F

Benjamin F

PLASMA LEVELS OF FRACTIONATED ESTROGENS AND PITUITARY HORMONES IN ENDOMETRIAL CARCINOMA. Benjamin F, *Deutsch S Am J Obstet Gynecol* 126: 638-47, 15 Nov 76 (Eng) DL/77FEB470

AGE FACTORS; AGED; ESTROGENS (blood); FEMALE; FSH (blood); GONADOTROPINS, PITUITARY (blood); HUMAN; LH (blood); MIDDLE AGE; OBESITY IN DIABETES (blood); OBESITY (blood); PROLACTIN (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UTERINE NEOPLASMS (blood).

Benker G

EFFECTS OF GROWTH HORMONE RELEASE-INHIBITING HORMONE AND BROMOCRYPTINE (CB 154) IN STATES OF ABNORMAL PITUITARY-ADRENAL FUNCTION. Benker G, Hackenberg K, Hamburger B, Reinwein D *Clin Endocrinol (Oxf)* 5: 187-90, Mar 76 (Eng) *DL/77FEB542

ADRENAL GLAND DISEASES (blood); ADULT; CORTICOTROPIN (blood); ERGOLINES (pharmacodynamics); FEMALE; HUMAN; HYDROCORTISONE (blood); MALE; MIDDLE AGE; PITUITARY DISEASES (blood); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); 2-BROMOERGOCRYPTINE (pharmacodynamics).

Bennett LL

GROWTH HORMONE AND INSULIN SECRETION. PP, 116-26. Bennett LL, Curry DL *In: Peckle A, Muller EE, ed. Growth hormone and related peptides.* Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB180

ANIMAL; CALCIUM (pharmacodynamics); GLUCOSE (pharmacodynamics); HYPOPHYSECTOMY; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, secretion, ultrastructure); KINETICS; MONOGRAPH (mortality); RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); SOMATOTROPIN (pharmacodynamics); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Bennett PH

EVIDENCE FOR AN INSULIN-INDEPENDENT ALPHA-CELL ABNORMALITY IN HUMAN DIABETES. Bennett PH, Aronoff SL, Unger RH *Metabolism* 25: 1527-9, Nov 76 (Eng) DL/77FEB316

ARGININE (diagnostic use); BLOOD SUGAR (metabolism); DIABETES MELLITUS (physiopathology); GLUCAGON (blood, secretion); GLUCOSE (pharmacodynamics); HUMAN; INSULIN (blood); ISLANDS OF LANGERHANS (secretion); PREDIABETIC STATE (physiopathology).

Benoliel JQ

THE DEVELOPING DIABETIC IDENTITY: A STUDY OF FAMILY INFLUENCE. Benoliel JQ *Commun Nurs Res* 3: 14-32, Sep 70 (Eng) DL/77FEB56

ADOLESCENCE; ADULT; CHILD; DIABETES MELLITUS, JUVENILE; FAMILY; FEMALE; HUMAN; IDENTIFICATION (PSYCHOLOGY); MALE; PARENT-CHILD RELATIONS; RESEARCH (methods); SOCIAL ADJUSTMENT; SOCIAL VALUES; SOCIALIZATION.

Benso L

[PREVENTION OF ARTERIOSCLEROSIS DURING CHILDHOOD: PRELIMINARY RESEARCH] Nigro N, Benso L, Martini A, Balteri M, Brunet MR, Iudicello P *Minerva Pediatr* 27: 288-312, 18 Feb 75 (Ita) *DL/77FEB611

Diabetes Literature—Author Index

Benson JW

IMMUNOREACTIVE GLUCAGON RESPONSES TO ARGININE IN THREE PANCREATOTOMIZED HUMANS. Palmer JP, Werner PL, Benson JW, Einsack JW *Metabolism* 25: 1483-5, Nov 76 (Eng) DL/77FEB305

Bensoussan D

[ABNORMALITIES IN PRIMARY HEMOSTASIS DURING DIABETIC MICROANGIOPATHY] Bensoussan D, Levy-Toledano S, Passa P *Acad Rev* 5: 2383-6, 30 Oct 76 (Fre) DL/77FEB457

BLOOD COAGULATION DISORDERS (blood); DIABETIC ANGIOPATHIES (blood); HUMAN; IN VITRO; PLATELET ADHESIVENESS; PLATELET AGGREGATION; VON WILLEBRAND FACTOR.

Benziman M

FACTORS AFFECTING THE ACTIVITY OF CITRATE SYNTHASE OF ACETOBACTER XYLINUM AND ITS POSSIBLE REGULATORY ROLE. Swissa M, Benziman M *Biochem J* 153: 173-9, 1 Feb 76 (Eng) *DL/77FEB713

Benzo CA

FUNCTIONAL DIFFERENTIATION OF THE CHICK ENDOCRINE PANCREAS. II. THE ALPHA CELLS AND GLUCAGON. Benzo CA, Stearns SB *Am J Anat* 147: 273-9, Nov 76 (Eng) DL/77FEB465

ANIMAL; CHICK EMBRYO; GLUCAGON (blood, metabolism); ISLANDS OF LANGERHANS (embryology, metabolism, ultrastructure); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Beraud JJ

[TREATMENT OF DIABETIC KETO-ACIDOSIS THROUGH CONTINUOUS INSULIN INFUSION] Mirouze J, Mion C, Monnier L, Beraud JJ, Selam JL *Nouv Presse Med* 5: 2444-6, 6 Nov 76 (Fre) DL/77FEB342

Berestovskii GN

[RECONSTRUCTION OF A SINGLE CELLULAR POTASSIUM-SODIUM CHANNEL IN A LIPID BILAYER] Aleksandrov AA, Berestovskii GN, Volkova SP, Vostrikov IA, Zherelova OM *Dokl Akad Nauk SSSR* 227: 723-6, 21 Mar 76 (Rus) *DL/77FEB545

Berezat G

[SUBCELLULAR LOCALIZATION OF RAT ADIPOCYTE LIPOPROTEIN LIPASE] Wolf C, Vanhove A, Breton M, Etienne J, Berezat G, Polonovski J *C R Soc Biol (Paris)* 169: 1145-9, 1975 (Fre) *DL/77FEB528

Berg G

[FASTING VALUES OF CARBOHYDRATE- AND LIPID METABOLISM IN HEALTHY SUBJECTS AND IN PATIENTS WITH DIABETES MELLITUS] Berg G, Matzki F, Sailer D *Fortschr Med* 94: 1541-3, 7 Oct 76 (Ger) DL/77FEB135

ADOLESCENCE; ADULT; CARBOHYDRATES (blood); DIABETES MELLITUS (blood); ENGLISH ABSTRACT; FASTING; HUMAN; HYDROXYBUTYRATES (blood); LACTATES (blood); LIPIDS (blood); MALE; MIDDLE AGE; PYRUVATES (blood).

Berger M

[MUSCULAR WORK IN THE THERAPY OF DIABETES MELLITUS] Berger M *Fortschr Med* 94: 1553-7, 7 Oct 76 (Ger) DL/77FEB136

BLOOD SUGAR (analysis); DIABETES MELLITUS (blood, physiopathology, therapy); ENGLISH ABSTRACT; EXERTION; HUMAN; INSULIN (blood); MUSCLES (physiopathology); PHYSICAL THERAPY.

GLUCOSE METABOLISM IN PERFUSED SKELETAL MUSCLE. EFFECTS OF STARVATION, DIABETES, FATTY ACIDS,

ACETOACETATE, INSULIN AND EXERCISE ON GLUCOSE UPTAKE AND DISPOSITION. Berger M, Hagg SA, Goodman MN, Ruderman NB *Biochem J* 158: 191-202, 15 Aug 76 (Eng) DL/77FEB504

ACETOACETATES (pharmacodynamics); ALANINE (metabolism); ANIMAL; CAPRYLATES (pharmacodynamics); EXERTION; FATTY ACIDS (pharmacodynamics); FEMALE; GLUCOSE (metabolism); HINDLIMB; IN VITRO; INSULIN (pharmacodynamics); KETOSIS, DIABETIC (chemically induced, metabolism); LACTATES (metabolism); MUSCLES (metabolism); OXYGEN CONSUMPTION; PALMITATES (pharmacodynamics); RATS; STARVATION (metabolism); STREPTOZOTOCIN; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Berger W

[LACTIC ACIDOSIS IN DIABETES MELLITUS (AUTHORS TRANSL.)] Buess HJ, Mihatsch MJ, Wunderlich P, Berger W *Praxis* 65: 406-13, 6 Apr 76 (Ger) DL/77FEB353

Berkson DM

EPIDEMIOLOGIC FINDINGS ON THE RELATIONSHIP OF TIME OF DAY AND TIME SINCE LAST MEAL TO GLUCOSE TOLERANCE. Mayer KH, Stamler J, Dyer A, Freinkel N, Stamler R, Berkson DM, Farber B *Diabetes* 25: 936-43, Oct 76 (Eng) DL/77FEB100

Berman M

EFFECTS OF ARTERIAL VERSUS VENOUS SAMPLING ON ANALYSIS OF GLUCOSE KINETICS IN MAN. McGuire EA, Helderma JH, Tobin JD, Andres R, Berman M *Biochem J* 157: 565-73, 1 Sep 76 (Eng) DL/77FEB500

Bernard J

OXYGEN METABOLISM IN THE ALVEOLAR MACROPHAGE: FRIEND AND FOE. Bernard J, Gee JB, Khandwala AS *J Reticuloendothel Soc* 19: 229-36, Apr 76 (Eng) *DL/77FEB601

AMOBARBITAL (pharmacodynamics); ANTIMYCIN A (pharmacodynamics); AZIDES (pharmacodynamics); CYANIDES (pharmacodynamics); D-AMINO ACID OXIDASE (metabolism); GLUCOSE (metabolism); GLUTATHIONE REDUCTASE (metabolism); HYDROGEN PEROXIDE (metabolism); LINOLEIC ACIDS (pharmacodynamics); MACROPHAGES (enzymology, metabolism); MITOCHONDRIA (metabolism); NEUTROPHILS (metabolism); NADH, NADPH OXIDOREDUCTASES (metabolism); OXIDATIVE PHOSPHORYLATION; OXYGEN CONSUMPTION; PEROXIDASES (metabolism); PEROXIDES (pharmacodynamics); PHAGOCYTOSIS (drug effects); SMOKING; SUPEROXIDE DISMUTASE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Bernier J

[COMA CAUSED BY HYPEROSMOLARITY] Morin C, Bernier J *Union Med Can* 105: 1174-80, Aug 76 (Fre) DL/77FEB422

Berthezene F

[LOW THYROTROPE HORMONE: A NEW ENTITY] Berthezene F, Paffoy JC, Escallier A, Bizollon C, Mornex R *Nouv Presse Med* 5: 2138-40, 9 Oct 76 (Fre) DL/77FEB343

ACROMEGALY (physiopathology); DIABETES MELLITUS (physiopathology); ENGLISH ABSTRACT; HUMAN; IODINE (blood); PERCHLORIC ACIDS (pharmacodynamics); PITUITARY DISEASES (physiopathology); POTASSIUM (pharmacodynamics); SECRETORY RATE; THYROID DISEASES (physiopathology); THYROID FUNCTION

TESTS; THYROTROPIN-RELEASING HORMONE (secretion); THYROTROPIN (deficiency).

Besse J

[LONG-TERM PROGNOSIS OF INFANTILE DIABETES (EDITORIAL)] Lestrade H, Besse J, Billaud L, Battistelli F, Tric F, Lestrade F *Nouv Presse Med* 6: 2297-8, 23 Oct 76 (Fre) DL/77FEB345

Besser GM

EFFECTS OF GROWTH HORMONE-RELEASE INHIBITING HORMONE (GH-RIH OR SOMATOSTATIN) ON SECRETORY PROCESSES IN STOMACH AND PANCREAS. PP. 407-12. Albinus M, Case RM, Reed JD, Shaw B, Smith PA, Gomez-Pan A, Hall R, Besser GM, Schally AV *Ino Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract. Baltimore, Univ Park Press, 1976. WI 102 S859 1975. (Eng) *DL/77FEB586*

Beuhler RJ

FIELD DESORPTION MASS SPECTRUM OF GLUCAGON. Winkler HU, Beuhler RJ, Friedman L *Biomed Mass Spectrom* 3: 201-6, Oct 76 (Eng) DL/77FEB15

Beuving RD

LIPOLYTIC ACTIVITY OF SWINE ADIPOCYTES. Mersmann HJ, Brown LJ, Beuving RD, Arakelian MC *Am J Physiol* 230: 1439-43, May 76 (Eng) *DL/77FEB700

Bewley TA

HUMAN PITUITARY GROWTH HORMONE: RESTORATION OF FULL BIOLOGICAL ACTIVITY BY NONCOVALENT INTERACTION OF TWO FRAGMENTS OF THE HORMONE. Li CH, Bewley TA *Proc Natl Acad Sci USA* 73: 1476-9, May 76 (Eng) *DL/77FEB623

Beyer TA

THE KINETIC MECHANISM OF BOVINE MILK GALACTOSYLTRANSFERASE. THE ROLE OF ALPHA-LACTALBUMIN. Bell JE, Beyer TA, Hill RJ *J Biol Chem* 251: 3003-13, 25 May 76 (Eng) *DL/77FEB571

Beznak M

THE HORMONAL RESTORATION OF THE INTRINSIC CONTRACTILE FUNCTION OF THE ATROPHIC HEARTS OF HYPOPHYSECTOMIZED RATS. Korecky B, Taichman GC, Minelli R, Beznak M *Recent Adv Stud Cardiac Struct Metab* 1: 71-80, 1972 (Eng) *DL/77FEB651

Bhagat B

EFFECT OF CHRONIC ADMINISTRATION OF NICOTINE ON METABOLIC RESPONSES AND INTESTINAL GLUCOSE TRANSPORT. PP. 127-36. Bhagat B, van Beaumont W, Ellert MS *Ino Singh JM, Lal H, ed. Drug addiction. Vol 40 New aspects of analytical and clinical toxicology. New York, Stratton, 1974. W3 IN917KC 1973d. (Eng) [15] *DL/77FEB593*
ANIMAL EXPERIMENTS (analysis); BODY TEMPERATURE (drug effects); BODY WEIGHT (drug effects); GLUCOSE (metabolism); HEMODYNAMICS (drug effects); HUMAN; INTESTINAL ABSORPTION (drug effects); MALE; MONOGRAPH (mortality); NICOTINE (metabolism, pharmacodynamics); OXYGEN CONSUMPTION (drug effects); RATS; REVIEW; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.)

Bhattacharyya BR

SYNTHESIS OF SOME BETA-O-GLUCOPYRANOSIDES HAVING A HYDROPHOBIC AGLYCON GROUP TERMINATED WITH A HYDROPHILIC GROUP. Bhattacharyya BR, Ramaswamy K, Crane RK *Carbohydr Res* 47: 167-71, Mar 76 (Eng) *DL/77FEB530

GLUCOSIDES (chemical synthesis); GLYCOSIDES (chemical synthesis); METHODS; MOLECULAR CONFORMATION; NUCLEAR MAGNETIC RESONANCE; STRUCTURE-ACTIVITY RELATIONSHIP; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.)

Biczowa B

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL AND GROWTH HORMONE LEVELS IN YOUNG WEIGHT LIFTERS] Lukaszewska J, Biczowa B, Bobilewicz D, Wilk M, Obuchowicz-Fidelus B *Endokrynol Pol* 27: 149-57, Mar-Apr 76 (Pol) *DL/77FEB549

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL, TESTOSTERONE AND GROWTH HORMONE LEVELS IN WEIGHT LIFTERS] Skierska E, Ustupka J, Biczowa B, Lukaszewska J *Endokrynol Pol* 27: 159-65, Mar-Apr 76 (Pol) *DL/77FEB550

Bidingmaier F

MEAN 24-HOUR GROWTH HORMONE AND TESTOSTERONE CONCENTRATIONS IN RELATION TO PUBERTAL GROWTH SPURT IN BOYS WITH NORMAL OR DELAYED PUBERTY. Butenandt O, Eder R, Wohlfarth K, Bidingmaier F, Knorr D *Eur J Pediatr* 122: 85-92, 4 May 76 (Eng) *DL/77FEB551

Bierwolf B

[MODIFICATION OF INSULIN-SECRETION, INDUCED BY GLUCOSE, OF THE ISOLATION-PERFUSED RAT PANCREAS USING TOLBUTAMIDE, GLUCOSAMINE, DIAZOXIDE, GLUCAGON AND ENDOGENOUS INSULIN] Bierwolf B, Blech W *Acta Biol Med Ger* 35: 583-95, 1976 (Ger) DL/77FEB450

ANIMAL; DIAZOXIDE (pharmacodynamics); ENGLISH ABSTRACT; GLUCAGON

(pharmacodynamics); GLUCOSAMINE (pharmacodynamics); INSULIN (pharmacodynamics, secretion); PANCREAS (drug effects, physiology); PERFUSION; RATS; TOLBUTAMIDE (pharmacodynamics).

Bigorie B

[BLOOD LIPIDS, DIABETES AND ARTERIOSCLEROSIS] Guy-Grand B, Bigorie B, Bour H *Rev Prat* 26: 3097-107, 11 Oct 76 (Fre) DL/77FEB382

Billaud L

[LONG-TERM PROGNOSIS OF INFANTILE DIABETES (EDITORIAL)] Lestrade H, Besse J, Billaud L, Battistelli F, Tric F, Lestrade F *Nouv Presse Med* 6: 2297-8, 23 Oct 76 (Fre) DL/77FEB345

Bing FC

DIETARY FIBER—IN HISTORICAL PERSPECTIVE. Bing FC *J Am Diet Assoc* 69: 498-505, Nov 76 (Eng) [33] DL/77FEB172
CARDIOVASCULAR DISEASES (etiology, occurrence); CATHARTICS; CELLULOSE (pharmacodynamics); COLON (physiology); COLONIC DISEASES (etiology); DENTAL CARIES (etiology); DIABETES MELLITUS (etiology); DIETARY FIBER (metabolism, pharmacodynamics); DIGESTION; FOOD ANALYSIS; GASTROINTESTINAL DISEASES (etiology, occurrence); HUMAN; LIGNIN; MALE; NOMENCLATURE; OBESITY (etiology); PECTINS; POLYSACCHARIDES; REVIEW.

Bing RJ

MECHANISM OF INHIBITION OF CHOLESTEROL UPTAKE BY THE ARTERIAL WALL. Bing RJ, Sarma JSM, Fischer R, Ikeda S *Adv Exp Med Biol* 67: 419-435, 1976 (Eng) *DL/77FEB697

ACETATES (metabolism); ANIMAL EXPERIMENTS (analysis); AORTA (metabolism); CHOLESTENES (pharmacodynamics); CHOLESTENONES (pharmacodynamics); CHOLESTEROL (biosynthesis, metabolism); CORONARY VESSELS (metabolism); FEEDBACK; HUMAN; HYPERCHOLESTEREMIA (metabolism); LIPOPROTEINS, LDL (metabolism); RABBITS; SWINE.

Bittar N

CONTROL OF ENERGY PRODUCTION IN MYOCARDIAL ISCHEMIA. Shrago E, Shug AL, Sul H, Bittar N, Folts JD *Circ Res* 38: i75-9, May 76 (Eng) *DL/77FEB540

INHIBITED ADENINE NUCLEOTIDE TRANSLOCATION IN MITOCHONDRIA ISOLATED FROM ISCHEMIC MYOCARDIUM. Bittar N, Shug AL, Koke JR, Folts JD, Shrago ES *Recent Adv Stud Cardiac Struct Metab* 7: 137-43, 1975 (Eng) *DL/77FEB658

ADENINE NUCLEOTIDE TRANSLOCASE

(metabolism); ANIMAL EXPERIMENTS (analysis); CARBONYL CYANIDE M-CHLOROPHENYL HYDRAZONE (pharmacodynamics); COENZYME A (metabolism); CORONARY DISEASE (enzymology); DOGS; MICROSCOPY, ELECTRON; MITOCHONDRIA, MUSCLE (drug effects, metabolism, ultrastructure); MYOCARDIUM (enzymology, metabolism, ultrastructure); NUCLEOTIDYLTRANSFERASES (metabolism); OXYGEN CONSUMPTION (drug effects).

Bizollon C

[LOW THYROTROPE HORMONE: A NEW ENTITY] Berthezene F, Paffoy JC, Escallier A, Bizollon C, Mornex R *Nouv Presse Med* 5: 2138-40, 9 Oct 76 (Fre) DL/77FEB343

Bjontorp P

EFFECTS OF EXERCISE AND PHYSICAL TRAINING ON CARBOHYDRATE AND LIPID METABOLISM IN MAN. Bjontorp P *Adv Cardiol* 18: 158-66, 1976 (Eng) DL/77FEB462
CARBOHYDRATES (metabolism); EXERCISE; GLUCOSE TOLERANCE TEST; HUMAN; LIPIDS (metabolism); MIDDLE AGE; OBESITY (metabolism); PHYSICAL EDUCATION AND TRAINING; SPORTS.

Blackburn GL

ENERGY METABOLISM AND PROTEOLYSIS IN TRAUMATIZED AND SEPTIC MAN. Clowes GH Jr, O'Donnell TF, Blackburn GL, Maki TN *Surg Clin North Am* 56: 1169-84, Oct 76 (Eng) [53] DL/77FEB406

Blake KC

KINETICS OF INSULIN SECRETION IN CHRONIC PANCREATITIS AND MILD MATURITY ONSET DIABETES. (EVIDENCE FOR GUT HORMONE ACTION BEYOND GLUCORECEPTOR AND CYCLIC ADENOSINE MONOPHOSPHATE MEDIATED INSULIN RELEASE). Botha JL, Vinik AI, Blake KC, Jackson WP *Eur J Clin Invest* 6: 365-72, 10 Sep 76 (Eng) DL/77FEB72

Blass JP

KETONIC DIET IN THE MANAGEMENT OF PYRUVATE DEHYDROGENASE DEFICIENCY. Falk RE, Cederbaum SD, Blass JP, Gibson GE, Kark RA, Carrel RE *Pediatrics* 58: 713-21, Nov 76 (Eng) DL/77FEB338

Blaton V

THE NONHUMAN PRIMATES AS MODELS FOR STUDYING HUMAN ATHEROSCLEROSIS: STUDIES ON THE CHIMPANZEE, THE BABOON AND THE RHESUS MACACUS. Blaton V, Peeters H *Adv Exp Med Biol* 67: 33-64, 1976 (Eng) *DL/77FEB696

Blazquez E

ANIMAL EXPERIMENTS (analysis); APOPROTEINS (blood); ARTERIOSCLEROSIS (etiology); ATHEROSCLEROSIS (etiology, pathology, veterinary); BABOONS (anatomy & histology, blood); CHEMISTRY; CHIMPANZES (anatomy & histology, blood); COMPARATIVE STUDY; CORONARY DISEASE (pathology); DIET, ATHEROGENIC; DISEASE MODELS; ANIMAL; ELECTROPHORESIS; FEMALE; HUMAN; HYPERLIPIDEMIA (blood); LIPIDS (blood); LIPOPROTEINS (blood); LIPOPROTEINS, HDL (blood); LIPOPROTEINS, HDL (physiology); LIPOPROTEINS, LDL (blood); MACACA (anatomy & histology); MALE; MIDDLE AGE; MONKEY DISEASES (etiology); MONKEYS; RHESUS MONKEYS (anatomy & histology, blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Blazquez E

GASTRIC GLUCAGON SECRETION. Blazquez E, Munoz-Barragan L, Patton GS, Dobbs R, Unger RH *Metabolism* 25: 1475-6, Nov 76 (Eng) DL/77FEB303

ALLOXAN DIABETES (physiopathology); ANIMAL; DOGS; GASTRIC MUCOSA (drug effects, secretion); GLUCAGON (secretion); INSULIN (pharmacodynamics); PANCREAS (physiology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

GASTRIC A-CELL FUNCTION IN NORMAL DOGS. Munoz-Barragan L, Blazquez E, Patton GS, Dobbs RE, Unger RH *Am J Physiol* 231: 1057-61, Oct 76 (Eng) DL/77FEB474

Blech W

[MODIFICATION OF INSULIN-SECRETION, INDUCED BY GLUCOSE, OF THE ISOLATION-PERFUSED RAT PANCREAS USING TOLBUTAMIDE, GLUCOSAMINE, DIAZOXIDE, GLUCAGON AND ENDOGENOUS INSULIN] Bierwolf B, Blech W *Acta Biol Med Ger* 35: 583-95, 1976 (Ger) DL/77FEB450

Blizzard RM

HUMAN GROWTH HORMONE CHANGES WITH AGE. PP. 261-70. Bazzarte TL, Johanson AJ, Huseman CA, Varma MM, Blizzard RM *Inf Pedic A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB182*

Blonde L

HYPOGLYCEMIA: THE UNDISEASE. Blonde L, Riddick FA Jr *South Med J* 69: 1261-5, Oct 76 (Eng) DL/77FEB402

ADRENAL CORTEX DISEASES (complications); ADULT; AGED; BLOOD SUGAR (analysis); CHILD; CHILD, PRESCHOOL; DIAGNOSIS, DIFFERENTIAL; FASTING; GLUCAGON (deficiency); GLUCOSE TOLERANCE TEST; HORMONES, ECTOPIC (blood); HUMAN; HYPOGLYCEMIA (diagnosis, etiology, therapy); HYPOGLYCEMIC AGENTS (adverse effects); INFANT; INFANT, NEWBORN; ISLET CELL TUMOR (complications); LIVER CIRRHOSIS (complications); METABOLISM, INBORN ERRORS (complications); PANCREATIC NEOPLASMS (complications); SOMATOTROPIN (deficiency).

Bloom SR

ADRENAL AND PANCREATIC ENDOCRINE RESPONSES TO HYPOXIA IN THE CONSCIOUS CALF. Bloom SR, Edwards AV, Hardy RN, Silver M *J Physiol (Lond)* 261: 271-83, Oct 76 (Eng) DL/77FEB212

ADRENAL GLANDS (blood supply, secretion); ADRENAL MEDULLA (secretion); ANIMAL; ANOXIA (physiopathology); CATECHOLAMINES (secretion); CATTLE; CONSCIOUSNESS; CORTICOSTERONE

(secretion); GLUCAGON (blood); HYDROCORTISONE (secretion); INSULIN (blood); ISLANDS OF LANGERHANS (secretion); SPLANCHNIC NERVES (physiology).

GUT HORMONES AND THE ALPHA CELL.

Bloom SR, Iversen J *Metabolism* 25: 1457-8, Nov 76 (Eng) DL/77FEB297

ANIMAL; DOGS; GASTRIC INHIBITORY POLYPEPTIDE (pharmacodynamics); GASTROINTESTINAL HORMONES (pharmacodynamics); GLUCAGON (secretion); GLUCOSE (pharmacodynamics); ISLANDS OF LANGERHANS (drug effects, secretion); PANCREAS; PEPTIDES (pharmacodynamics); VASOACTIVE INTESTINAL PEPTIDE (pharmacodynamics).

PLASMA GLUCAGON IN DIABETES RESULTING FROM TOTAL PANCREATECTOMY [PROCEEDINGS]. Bloom SR, Barnes AJ, Bryant MG, Alberti KG *Metabolism* 25: 1481-2, Nov 76 (Eng) DL/77FEB304

ARGININE (diagnostic use); BLOOD SUGAR (metabolism); DIABETES MELLITUS (blood, etiology); FATTY ACIDS, NONESTERIFIED (blood); GLUCAGON (blood); GLYCERIN (blood); HUMAN; HYDROXYBUTYRATES (blood); PANCREATECTOMY (adverse effects).

Blough HA

EFFECTS OF DENSITY-DEPENDENT INHIBITION OF GROWTH ON PHOSPHOLIPID METABOLISM IN MONOLAYER CULTURES OF ANIMAL CELLS. Gallaher WR, Blough HA *Arch Biochem Biophys* 173: 738-46, Apr 76 (Eng) *DL/77FEB704

Blouin D

THE EFFECT OF ORAL RITODRINE ON MATERNAL AND FETAL CARBOHYDRATE METABOLISM. Blouin D, Murray MA, Beard RW *Br J Obstet Gynaecol* 83: 711-5, Sep 76 (Eng) DL/77FEB88

BLOOD SUGAR (metabolism); COMPARATIVE STUDY; FEMALE; FETAL BLOOD (analysis); FETUS (drug effects, metabolism); GLUCOSE TOLERANCE TEST; HUMAN; INFANT, NEWBORN; INSULIN (blood); PREGNANCY; PROPRANOLAMINES (pharmacodynamics); RITODRINE (pharmacodynamics); SYMPATHOMIMETICS (pharmacodynamics); UTERUS (blood supply).

Blumel G

[FATTY ACID PATTERN OF LIPID FRACTIONS IN THE BLOOD. II. CONTROL PERSONS] Lohninger A, Weigl K, Riedl W, Heinkelmann W, Tolle W, Schlag G, Landauer B, Blumel G *Med Welt* 27: 923-6, 7 May 76 (Ger) *DL/77FEB609

Blumlein SL

PREOPERATIVE RISK FACTORS AND AORTA-CORONARY BYPASS GRAFT PATENCY. Blumlein SL, Anderson AJ, Barboriak JJ, Rimm AA, Walker J, Flemma R *J Thorac Cardiovasc Surg* 72: 778-83, Nov 76 (Eng) DL/77FEB234

AGE FACTORS; ANGINA PECTORIS (complications); AORTOCORONARY BYPASS; BLOOD PRESSURE; BODY HEIGHT; BODY WEIGHT; CARDIAC OUTPUT; CHOLESTEROL (blood); CONSTRICTION, PATHOLOGIC; DIABETIC ANGIOPATHIES (complications); GRAFT SURVIVAL; HEART VENTRICLE (physiopathology); HUMAN; MYOCARDIAL INFARCT (complications); PRESSURE; PROGNOSIS; RISK; SAPHENOUS VEIN (transplantation); SMOKING (complications); TRANSPLANTATION, AUTOLOGOUS; TRIGLYCERIDES (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Blundell TL

THE RELATION OF STRUCTURE TO STORAGE AND RECEPTOR BINDING OF GLUCAGON. Blundell TL, Dockrill S, Sasaki K, Tickle U, Wood SP *Metabolism* 25: 1331-6, Nov 76 (Eng) DL/77FEB268

AMINO ACIDS (analysis); GASTRIC INHIBITORY POLYPEPTIDE (metabolism); GLUCAGON (metabolism); POLYMERS; PROTEIN CONFORMATION; RECEPTORS, HORMONE (metabolism); SECRETIN (metabolism); STRUCTURE-ACTIVITY RELATIONSHIP; VASOACTIVE INTESTINAL PEPTIDE (metabolism).

Bobilewicz D

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL AND GROWTH HORMONE LEVELS IN YOUNG WEIGHT LIFTERS] Lukaszewska J, Biczowa B, Bobilewicz D, Wilk M, Obuchowicz-Fidelus B *Endokrynol Pol* 27: 149-57, Mar-Apr 76 (Pol) *DL/77FEB549

Bogden AE

CIRCADIAN PATTERN OF PROLACTIN AND GROWTH HORMONE LEVELS IN FEMALE RATS OF TWO STRAINS. Esber HJ, Kuo E, Bogden AE *Lab Anim Sci* 26: 186-9, Apr 76 (Eng) *DL/77FEB604

Bohannon NV

EFFECTS OF ACUTE INSULIN WITHDRAWAL AND ADMINISTRATION ON PLASMA GLUCAGON RESPONSES TO INTRAVENOUS ARGININE IN INSULIN-DEPENDENT DIABETIC SUBJECTS. Gerich JE, Lorenzi M, Tsalkian E, Bohannon NV, Schneider V, Karam JH, Forsham PH *Diabetes* 25: 955-60, Oct 76 (Eng) DL/77FEB103

Bombay JD

AN IMPORTANT ROLE FOR GLUCAGON IN THE REGULATION OF GLUCOSE PRODUCTION IN VIVO. Liljenquist JE, Chiasson JL, Cherrington AD, Keller U, Jennings AS, Bombay JD, Lacy WW *Metabolism* 25: 1371-3, Nov 76 (Eng) DL/77FEB276

Bondoux M

HUMAN FAT CELL SIZING--A QUICK, SIMPLE METHOD. Ashwell M, Priest P, Bondoux M, Sower C, McPherson CK *J Lipid Res* 17: 190-2, Mar 76 (Eng) *DL/77FEB594

Bono G

INSULIN SECRETION IN MIGRAINE: INFLUENCE ON THE BLOOD LEVELS OF TRYPTOPHAN. Poloni M, Nappi G, Bono G, Roggi C, Arpesella M, Virgilio P *Monogr Neural Sci* 3: 67-70, 1976 (Eng) DL/77FEB322

Borjeson M

THE AETIOLOGY OF OBESITY IN CHILDREN. A STUDY OF 101 TWIN PAIRS. Borjeson M *Acta Paediatr Scand* 65: 279-87, May 76 (Eng) *DL/77FEB686

BIRTH WEIGHT; CHILD; DISEASES IN TWINS; FEMALE; HUMAN; MALE; MATERNAL-FETAL EXCHANGE; OBESITY (etiology, familial & genetic); SKINFOLD THICKNESS.

Bornet EP

ASSOCIATION OF GLYCOGENOLYSIS WITH CARDIAC SARCOPLASMIC RETICULUM. Entam ML, Kanike K, Goldstein MA, Nelson TE, Bornet EP, Futch TW, Schwartz A *J Biol Chem* 251: 3140-6, 25 May 76 (Eng) *DL/77FEB575

Bornstein J

IN VIVO AND IN VITRO ACTIONS OF SYNTHETIC PART SEQUENCES OF HUMAN PITUITARY GROWTH HORMONE. PP. 41-9. Bornstein J *Inf Pedic A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Ex-*

Diabetes Literature—Author Index

Brenckman WD

cerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB183

AMINO ACID SEQUENCE; ANIMAL; BIOLOGICAL ASSAY; BLOOD SUGAR (metabolism); DIAPHRAGM (drug effects, metabolism); GLUCOSE (metabolism); GLYCERALDEHYDEPHOSPHATE DEHYDROGENASE (metabolism); HORMONES, SYNTHETIC (pharmacodynamics); HUMAN; INSULIN (metabolism); ISLANDS OF LANGERHANS (drug effects, metabolism); MONOGRAPH (mortality); OLIGOPEPTIDES (pharmacodynamics); RATS; SOMATOTROPIN (pharmacodynamics).

Borovic F

MYOCARDIAL CELL DAMAGE DUE TO ETHANOL. Gvozjak A, Borovic F, Bada V, Kruty F, Niederland TR, Gvozjak J *Recent Adv Stud Cardiac Struct Metab* 7: 451-7, 1975 (Eng) *DL/77FEB675

Boskovic S

[STERIOD DIABETES - VERY SIGNIFICANT COMPLICATION OF IMMUNOSUPPRESSION FOLLOWING THE KIDNEY TRANSPLANTATION] Boskovic S, Haracic M *Med Arh* 30: 195-7, May-Jun 76 (Ser) DL/77FEB239

ADULT; CASE REPORT; DIABETES MELLITUS (chemically induced); ENGLISH ABSTRACT; HUMAN; IMMUNOSUPPRESSIVE AGENTS (adverse effects); KIDNEY (transplantation); MALE; TRANSPLANTATION, HOMOLOGOUS.

Botalla L

NEUROENDOCRINE CONTROL OF GROWTH HORMONE SECRETION: EXPERIMENTAL AND CLINICAL STUDIES. PP. 236-51. Liuzzi A, Panerai AE, Chiodini PG, Secchi C, Cocchi D, Botalla L, Silvestrini F, Muller EE *Ino Picelle A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica*, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB185

Botha JL

KINETICS OF INSULIN SECRETION IN CHRONIC PANCREATITIS AND MILD MATURITY ONSET DIABETES. (EVIDENCE FOR GUT HORMONE ACTION BEYOND GLUCORECEPTOR AND CYCLIC ADENOSINE MONOPHOSPHATE MEDIATED INSULIN RELEASE). Botha JL, Vinik AI, Blake KC, Jackson WP *Eur J Clin Invest* 6: 365-72, 10 Sep 76 (Eng) DL/77FEB72

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADULT; AMINOPHYLLINE (pharmacodynamics); CHOLECYSTOKININ (pharmacodynamics); CHRONIC DISEASE; DIABETES MELLITUS (metabolism); GASTROINTESTINAL HORMONES (physiology); GLUCOSE (pharmacodynamics); HUMAN; INSULIN (secretion); KINETICS; MALE; MIDDLE AGE; PANCREATITIS (metabolism); RECEPTORS, DRUG.

Bottazzo GF

SEPARATE AUTOANTIBODIES TO HUMAN PANCREATIC GLUCAGON AND SOMATOSTATIN CELLS. Bottazzo GF, Lendrum R *Lancet* 2: 873-6, 23 Oct 76 (Eng) DL/77FEB244

ADOLESCENCE; ADULT; AGED; AUTOANTIBODIES (isolation & purification); CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS (etiology, immunology); FEMALE; FLUORESCENT ANTIBODY TECHNIC; GLUCAGON (deficiency, immunology); HUMAN; IGG (isolation & purification); IGM (isolation & purification); ISLANDS OF LANGERHANS (cytology, immunology); MALE; MIDDLE AGE; SOMATOTROPIN RELEASE INHIBITING HORMONE (deficiency, immunology).

Bottigioni F

[PROGNOSIS OF CHILDREN OF MOTHERS WITH DIABETES MELLITUS] Salvioli GP, Dallacasa P, Bottigioni F, Guerres E *Minerva Pediatr* 28: 212-6, 11 Feb 76 (Ita) DL/77FEB320

Bouchier IA

EXOCRINE PANCREATIC FUNCTION IN JUVENILE-ONSET DIABETES MELLITUS. Frier BM, Saunders JH, Wormsley KG, Bouchier IA *Gut* 17: 685-91, Sep 76 (Eng) DL/77FEB133

Boudou A

[THE SMALL LEFT COLON SYNDROME. 3 CASES] Neuschwander S, Montagne JP, Boudou A, Boudou D, Mougenot JF, Gruner M, Faure C *Nouv Presse Med* 6: 2311-4, 23 Oct 76 (Fre) DL/77FEB346

Bour H

[BLOOD LIPIDS, DIABETES AND ARTERIOSCLEROSIS] Guy-Grand B, Bigorie B, Bour H *Rev Prat* 26: 3097-107, 11 Oct 76 (Fre) DL/77FEB382

[THERAPEUTIC REQUIREMENTS OF NON-INSULIN DEPENDENT DIABETES AND ITS VARIANTS] Dorf G, Bour H *Sem Hop Ther* 52: 121-3, Feb 76 (Fre) DL/77FEB400

Bouron D

[THE SMALL LEFT COLON SYNDROME. 3 CASES] Neuschwander S, Montagne JP, Boudou A, Bouron D, Mougenot JF, Gruner M, Faure C *Nouv Presse Med* 6: 2311-4, 23 Oct 76 (Fre) DL/77FEB346

Boutaud P

[DIABETES MELLITUS IN PHEOCHROMOCYTOMA] Sudre Y, Becq-Giraudon B, Pouget-Abadie JF, Boutaud P, Barbier J, Meriel P, Gasquet C, Babin P *Sem Hop Paris* 52: 1893-902, 16 OCT 76 (Fre) DL/77FEB399

Boutaud PH

[ROLE OF PERHEXILINE MALEATE AND BETA BLOCKING AGENTS IN THE DEVELOPMENT OF SEVERE HYPOGLYCEMIA (LETTER)] Sudre Y, Becq-Giraudon B, Pouget-Abadie JF, Demange J, Boutaud PH *Nouv Presse Med* 5: 1999, 25 Sep 76 (Fre) DL/77FEB341

Bower SA

METABOLIC REQUIREMENTS FOR MELANOPHORE-STIMULATING HORMONE (MSH) SECRETION. Hadley ME, Bower SA *Gen Comp Endocrinol* 28: 118-30, Feb 76 (Eng) *DL/77FEB558

Bowman CM

ACETATE KINASE FROM VEILLONELLA ALCAESCENS. REGULATION OF ENZYME ACTIVITY BY SUCCINATE AND SUBSTRATES. Bowman CM, Valdez RO, Nishimura JS *J Biol Chem* 251: 3117-21, 25 May 76 (Eng) *DL/77FEB573

ACETATES (metabolism); ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (biosynthesis); KINETICS; MOLECULAR WEIGHT; PHOSPHATES (metabolism); PHOSPHOTRANSFERASES, ATP (metabolism); PROPIONATES (metabolism); PROTEIN BINDING; SUCCINATES (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; VEILLONELLA (enzymology).

Boyer PD

A MODEL FOR CONFORMATIONAL COUPLING OF MEMBRANE POTENTIAL AND PROTON TRANSLLOCATION TO ATP SYNTHESIS AND TO ACTIVE TRANSPORT. Boyer PD *FEBS Lett* 58: 1-6, 15 Oct 75 (Eng) *DL/77FEB555

ADENOSINE TRIPHOSPHATE (biosynthesis); BIOLOGICAL TRANSPORT, ACTIVE; ENERGY METABOLISM; ISOELECTRIC POINT; KINETICS; MEMBRANE POTENTIALS; MEMBRANES (metabolism, ultrastructure); MODELS, BIOLOGICAL; OXIDATIVE PHOSPHORYLATION; PROTONS, UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Brachfeld N

EFFECT OF PALMITATE ON HYPOXIC MYOCARDIAL METABOLISM AND CONTRACTILITY. Apstein CS, Gmeiner R, Brachfeld N *Recent Adv Stud Cardiac Struct Metab* 1: 136-46, 1972 (Eng) *DL/77FEB635

Brassinne AH

GLUCAGON AND GASTRIN RELEASE BY THE ISOLATED PERFUSED DOG STOMACH IN RESPONSE TO ARGININE. Lefebvre PJ, Luyckx AS, Brassinne AH, Nizet AH *Metabolism* 25: 1447-9, Nov 76 (Eng) DL/77FEB294

Braun T

THE EFFECT OF DIVALENT CATIONS ON BOVINE SPERMATOZOAL ADENYLATE CYCLASE ACTIVITY. Braun T *J Cyclic Nucleotide Res* 1: 271-81, 1975 (Eng) *DL/77FEB581

ADENYL CYCLASE (metabolism); ANIMAL EXPERIMENTS (analysis); CADMIUM (pharmacodynamics); CALCIUM (pharmacodynamics); CATIONS, DIVALENT; CATTLE; CHELATING AGENTS (pharmacodynamics); COBALT (pharmacodynamics); ENZYME ACTIVATION (drug effects); KINETICS; MAGNESIUM (pharmacodynamics); MALE; MANGANESE (pharmacodynamics); SPERMATOZOA (drug effects, enzymology); ZINC (pharmacodynamics).

Brazeau P

CONTROL OF ANTERIOR PITUITARY HORMONE SECRETION. HYPOTHALAMIC PEPTIDES AND THEIR INTERACTIONS. PP. 180-95. Grant G, Vale W, Brazeau P, Rivier J, Monahan M, Gilon C, Amoss M, Rivier C, Ling N, Burgess R, Guillemin R *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function. Basel, Karger*, 1974. WL 312 165r 1973. (Eng) [39] *DL/77FEB588

Breiddin K

ON THE MEASUREMENT OF SPONTANEOUS PLATELET AGGREGATION. THE PLATELET AGGREGATION TEST III. METHODS AND FIRST CLINICAL RESULTS. Breiddin K, Grun H, Krzywanek HJ, Schremmer WP *Thromb Haemostas* 35: 669-91, 30 Jun 76 (Eng) DL/77FEB412

AGE FACTORS; BLOOD COAGULATION TESTS (methods); DIABETES MELLITUS (blood); HUMAN; PHOTOMETRY; PLATELET AGGREGATION; THROMBOEMBOLISM (diagnosis); THROMBOSIS (diagnosis); TIME FACTORS.

Breidahi HD

CARBOHYDRATE TOLERANCE AND OBESITY. Breidahi HD *Med J Aust* 1: 9-10, 19 Jun 76 (Eng) DL/77FEB319

ADIPOSE TISSUE (physiopathology); ANIMAL; DIABETES MELLITUS (physiopathology); GLUCOSE TOLERANCE TEST; HAMSTERS; HUMAN; INSULIN RESISTANCE; INSULIN (secretion); OBESITY IN DIABETES (physiopathology); OBESITY (physiopathology); RECEPTORS, HORMONE.

Brenckman WD

FRAGMENTATION HAEMOLYSIS IN PATIENTS WITH SEVERE DIABETIC ANGIOPATHY. Brunning RD, Jacob HS, Brenckman WD, Jimenez-Pasquau F, Goetz FC

Breton M

Br J Haematol 34: 283-9, Oct 76 (Eng) DL/77FEB7

Breton M

[SUBCELLULAR LOCALIZATION OF RAT ADIPOCYTE LIPOPROTEIN LIPASE] Wolf C, Vanhove A, Breton M, Etienne J, Berezat G, Polonovski J *C R Soc Biol (Paris)* 169: 1145-9, 1975 (Fre) *DL/77FEB528

Brettes JP

[ALPHA FETO PROTEIN. NORMAL PREGNANCIES AND MATERNAL DISEASES. APROPOS OF 3,010 RADIOIMMUNOLOGIC DETERMINATIONS] Brettes JP, Tourne CE, Gandar R *J Gynecol Obstet Biol Reprod (Paris)* 5: 637-44, Jul-Aug 76 (Fre) DL/77FEB176

ADULT; ALPHA FETOPROTEINS (analysis); ANEMIA (blood); ENGLISH ABSTRACT; FEMALE; FETAL DISTRESS (diagnosis); HUMAN; PREGNANCY IN DIABETES (blood); PREGNANCY COMPLICATIONS (blood); PREGNANCY; RADIOIMMUNOASSAY.

Bretzel RG

ISLET TRANSPLANTATION IN EXPERIMENTAL DIABETES OF THE RAT. V. REGRESSION OF GLOMERULAR LESIONS IN DIABETIC RATS AFTER INTRAPORTAL TRANSPLANTATION OF ISOGENEIC ISLETS. PRELIMINARY RESULTS. Federlin K, Bretzel RG, Schmidchen U *Horm Metab Res* 8: 404-6, Sep 76 (Eng) DL/77FEB148

Brinn JE

NEW TYPES OF ISLET CELLS IN A CYCLOSTOME, PETROMYZON MARINUS L. Brinn JE, Epple A *Cell Tissue Res* 171: 317-29, 26 Aug 76 (Eng) DL/77FEB39

ANIMAL; CYCLOSTOMES (anatomy & histology); CYTOPLASMIC GRANULES (ultrastructure); FEMALE; ISLANDS OF LANGERHANS (ultrastructure); LAMPREYS (anatomy & histology); MALE; PANCREATIC HORMONES; PHYLOGENY; STAINS AND STAINING; TRYPTOPHAN (analysis); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .

Brocard JM

[PARODONTOPATHY REVEALING INSULIN-DEPENDANT DIABETES (LETTER)] Pinget M, Dornier M, Brocard JM, Comte F, Farge R, Roth JJ *Nouv Presse Med* 5: 1995, 25 Sep 76 (Fre) DL/77FEB340

Brodan V

[METABOLIC EFFECT OF ADMINISTRATION OF GLUCAGON AND A COMBINATION OF GLUCAGON AND FRUCTOSE TO PATIENTS WITH CIRRHOSIS OF THE LIVER AND TO HEALTHY SUBJECTS (AUTHORS TRANSL.)] Brodanova M, Brodan V, Andel M, Kuhn E *Sh Lek* 78: 218-24, Aug 76 (Cze) DL/77FEB390

Brodanova M

[METABOLIC EFFECT OF ADMINISTRATION OF GLUCAGON AND A COMBINATION OF GLUCAGON AND FRUCTOSE TO PATIENTS WITH CIRRHOSIS OF THE LIVER AND TO HEALTHY SUBJECTS (AUTHORS TRANSL.)] Brodanova M, Brodan V, Andel M, Kuhn E *Sh Lek* 78: 218-24, Aug 76 (Cze) DL/77FEB390

ENGLISH ABSTRACT; FATTY ACIDS, NONESTERIFIED (blood); FRUCTOSE (administration & dosage); GLUCAGON (administration & dosage); HUMAN; LIVER CIRRHOSIS (metabolism); LIVER (drug effects); TRIGLYCERIDES (blood).

Broitman SA

AUGMENTATION OF ETHANOL ABSORPTION BY MONO- AND DISACCHARIDES. Broitman SA, Gottlieb LS, Vitale JJ *Gastroenterology* 70: 1101-7, Jun 76 (Eng) *DL/77FEB557

ALCOHOL; ETHYL (metabolism); ANIMAL EXPERIMENTS (analysis); DISACCHARIDES (pharmacodynamics); FRUCTOSE (pharmacodynamics); GALACTOSE (pharmacodynamics); GLUCOSE (pharmacodynamics); HYDROLYSIS; INTESTINAL ABSORPTION (drug effects); MALTOS (pharmacodynamics); METHYLGLUCOSIDES (pharmacodynamics); MONOSACCHARIDES (pharmacodynamics); RATS; SUCROSE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ; WATER (metabolism).

Bromer WW

STUDIES WITH GLUCAGON ANALOGS. Bromer WW *Metabolism* 25: 1315-6, Nov 76 (Eng) DL/77FEB263

AMINO ACIDS (analysis); ASPARAGINE; GLUCAGON (analogs & derivatives, isolation & purification); HISTIDINE; METHIONINE; PEPTIDE FRAGMENTS; PROTEIN CONFORMATION; STRUCTURE-ACTIVITY RELATIONSHIP; THREONINE.

Brorson JE

TISSUE CONCENTRATIONS OF ANTIBIOTICS. Mannheim C, Brorson JE *J Antimicrob Chemother* 2: 313-4, Sep 76 (Eng) DL/77FEB156

Brown EM

HOLOCATALYTIC STATE OF ADENYLATE CYCLASE IN TURKEY ERYTHROCYTE MEMBRANES: FORMATION WITH GUANYLYLMIDODIPHOSPHATE PLUS ISOPROTERENOL WITHOUT EFFECT ON AFFINITY OF BETA-RECEPTOR. Spiegel AM, Brown EM, Fedak SA, Woodard CJ, Aurbach GD *J Cyclic Nucleotide Res* 2: 47-56, 1976 (Eng) *DL/77FEB583

Brown KF

EXPERIMENTAL EVALUATION OF THREE SINGLE-PARTICLE DISSOLUTION MODELS. Pedersen PV, Brown KF *J Pharm Sci* 65: 1442-7, OCT 76 (Eng) DL/77FEB208

Brown LJ

LIPOLYTIC ACTIVITY OF SWINE ADIPOCYTES. Mersmann HJ, Brown LJ, Beuving RD, Arakelian MC *Am J Physiol* 230: 1439-43, May 76 (Eng) *DL/77FEB700

Brown M

NEUROTENSIN AND SUBSTANCE-P: EFFECTS ON PLASMA INSULIN AND GLUCAGON LEVELS. Brown M, Villarreal J, Vale W *Metabolism* 25: 1459-61, Nov 76 (Eng) DL/77FEB298

ANIMAL; BLOOD SUGAR (metabolism); DIPHENHYDRAMINE (pharmacodynamics); GLUCAGON (blood); HISTAMINE (pharmacodynamics); INSULIN (blood); PEPTIDES (pharmacodynamics); PORTAL VEIN; RATS; SUBSTANCE P (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .

EFFECTS OF NEUROTENSIN AND SUBSTANCE P ON INSULIN AND GLUCAGON RELEASE BY THE PERFUSED DOG PANCREAS [PROCEEDINGS]. Patton G, Brown M, Dobbs R, Vale W, Unger RH *Metabolism* 25: 1465, Nov 76 (Eng) DL/77FEB300

SOMATOSTATIN ANALOGS WITH SELECTED BIOLOGIC ACTIVITIES. Brown M, Rivier J, Vale W *Metabolism* 25: 1501-3, Nov 76 (Eng) DL/77FEB309

ANIMAL; BLOOD SUGAR (metabolism); GLUCAGON (blood); INSULIN (blood); MALE; PORTAL VEIN; RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (analogs & derivatives, pharmacodynamics); STRUCTURE-ACTIVITY RELATIONSHIP; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .

Brown WA

STRESS-INDUCED GROWTH HORMONE RELEASE: PSYCHOLOGIC AND PHYSIOLOGIC CORRELATES. Brown WA, Heninger G *Psychosom Med* 38: 145-7, Mar-Apr 76 (Eng) *DL/77FEB630

ADOLESCENCE; ADULT; DEFENSE MECHANISMS; EMOTIONS; FIELD DEPENDENCE-INDEPENDENCE; HUMAN; MALE; PROJECTIVE TECHNIQUE; PSYCHOPHYSIOLOGY; REPRESSION-SENSITIZATION SCALES; SOMATOTROPIN (secretion); STRESS, PSYCHOLOGICAL.

Brunet MR

[PREVENTION OF ARTERIOSCLEROSIS DURING CHILDHOOD: PRELIMINARY RESEARCH] Nigro N, Benso L, Martini A, Balthieri M, Brunet MR, Iudicello P *Minerva Pediatr* 27: 288-312, 18 Feb 75 (Ita) *DL/77FEB611

Brunning RD

FRAGMENTATION HAEMOLYSIS IN PATIENTS WITH SEVERE DIABETIC ANGIOPATHY. Brunning RD, Jacob HS, Brenckman WD, Jimenez-Pasquau F, Goetz FC *Br J Haematol* 34: 283-9, Oct 76 (Eng) DL/77FEB7

ADULT; ANEMIA, HEMOLYTIC (blood, complications); CASE REPORT; DIABETIC ANGIOPATHIES (blood, complications, pathology); ERYTHROCYTE AGING; HUMAN; HYPERGLYCEMIA (blood); KIDNEY DISEASES (mortality); MALE; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ; UREMIA (blood).

Bryant MG

PLASMA GLUCAGON IN DIABETES RESULTING FROM TOTAL PANCREATECTOMY [PROCEEDINGS]. Bloom SR, Barnes AJ, Bryant MG, Alberti KG *Metabolism* 25: 1481-2, Nov 76 (Eng) DL/77FEB304

Bucher NL

INSULIN, GLUCAGON, LIVER REGENERATION, AND DNA SYNTHESIS. Bucher NL, Weir GC *Metabolism* 25: 1423-5, Nov 76 (Eng) DL/77FEB288

ANIMAL; DNA (biosynthesis); GLUCAGON (blood, pharmacodynamics); INSULIN (blood, pharmacodynamics); LIVER REGENERATION (drug effects); LIVER (drug effects); LIVER (metabolism); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .

Buchman NH

BONE AND JOINT CHANGES IN THE DIABETIC FOOT. Buchman NH *J Am Podiatry Assoc* 66: 211-26, Apr 76 (Eng) DL/77FEB175

ARTHRITIS, NEUROGENIC (diagnosis, etiology, pathology, therapy); DIABETES MELLITUS (complications); DIAGNOSIS, DIFFERENTIAL; FOOT DISEASES (etiology, pathology); FOOT DISEASES (diagnosis, therapy); FOOT (blood supply); HUMAN; ISCHEMIA (complications); SYNOVIAL MEMBRANE (pathology).

Buess HJ

[LACTIC ACIDOSIS IN DIABETES MELLITUS (AUTHORS TRANSL.)] Buess HJ, Mihatsch MJ, Wunderlich P, Berger W *Praxis* 65: 406-13, 6 Apr 76 (Ger) DL/77FEB353

ACIDOSIS (etiology); AGED; ALCOHOLISM (complications); BUFORMIN (therapeutic use); CASE REPORT; DIABETES MELLITUS (complications); DRUG ABUSE; ENGLISH ABSTRACT; FEMALE; HEART FAILURE, CONGESTIVE (complications); HUMAN; HYPERTENSION (complications); LACTATES (metabolism); LIVER CIRRHOSIS (etiology).

Bugnon C

[EFFECT OF VARIOUS INHIBITORS ON OXIDATIVE ACTIVITY AND ULTRASTRUCTURE OF RAT LIVER MITOCHONDRIA] Latruffe N, Lenys D, Gaudemer Y, Bugnon C *C R Soc Biol (Paris)* 169: 1290-5, 1975 (Fre) *DL/77FEB529

Bukowiecki L

[32P] ORTHOPHOSPHATE EFFLUX FROM PANCREATIC ISLETS: GRADED RESPONSE TO GLUCOSE STIMULATION. Pierce M, Bukowiecki L, Asplund K, Freinkel N *Horm Metab Res* 8: 358-61, Sep 76 (Eng) DL/77FEB142

Buneaux JJ

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteceuvre M, Buneaux JJ *Diabetes Metab* 1: 101-11, Jun 75 (Eng) DL/77FEB91

Burgus R

CONTROL OF ANTERIOR PITUITARY HORMONE SECRETION. HYPOTHALAMIC PEPTIDES AND THEIR INTERACTIONS. PP. 180-95. Grant G, Vale W, Brazeau P, Rivier J, Monahan M, Gilon C, Amoss M, Rivier C, Ling N, Burgus R, Guillemin R *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function.* Basel, Karger, 1974. WL 312 165r 1973. (Eng) [39] *DL/77FEB588

Burke V

EXTRACELLULAR CALCIUM AND ADRENERGIC AND CHOLINERGIC EFFECTS ON ISLET BETA-CELL FUNCTION. Burr IM, Slonim AE, Burke V, Fletcher T *Am J Physiol* 231: 1246-9, Oct 76 (Eng) DL/77FEB476

Burlakova EB

[REGULATION OF MICROSOMAL ENZYME ACTIVITY BY PHOSPHOLIPIDS IN VIVO] Burlakova EB, Dzhalibova MI, Molochkina EM *Dokl Akad Nauk SSSR* 227: 991-4, 1976 (Rus) *DL/77FEB547

ANIMAL EXPERIMENTS (analysis); ANTIOXIDANTS (pharmacodynamics); BENZOPYRENES; CARCINOMA, EHRICH TUMOR (enzymology, metabolism); CIRCADIAN RHYTHM; ENDOPLASMIC RETICULUM (metabolism); GLUCOSEPHOSPHATASE (metabolism); GLUCOSOMES, LIVER (enzymology); NEOPLASM TRANSPLANTATION; NEOPLASMS, EXPERIMENTAL (chemically induced, enzymology, metabolism); PEROXIDES (metabolism); PHOSPHOLIPIDS (physiology); RATS.

Burns RL

CARBOHYDRATE PREFERENCES OF MAMMALIAN CELLS. Burns RL, Rosenberger PG, Klebe RJ *J Cell Physiol* 88: 307-16, July 76 (Eng) *DL/77FEB576

ALCOHOLS (metabolism); CARBOHYDRATES (metabolism); CELL DIVISION; CELL LINE; COMPARATIVE STUDY; CULTURE MEDIA; DISACCHARIDES (metabolism); HEXOSES (metabolism); METHYLGLYCOSIDES (metabolism); PENTOSE (metabolism); POLYSACCHARIDES (metabolism); TRISACCHARIDES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.]

Burns TW

THE EFFECT OF ALPHA AND BETA ADRENERGIC RECEPTOR STIMULATION ON THE ADENYLATE CYCLASE ACTIVITY OF HUMAN ADIPOCYTES. Burns TW, Langley PE *J Cyclic Nucleotide Res* 1: 321-8, 1975 (Eng) *DL/77FEB579

ADENYL CYCLASE (metabolism); ADIPOSE TISSUE (drug effects, enzymology); ANIMAL EXPERIMENTS (analysis); BINDING SITES;

CELL MEMBRANE (drug effects, enzymology); EPINEPHRINE (metabolism, pharmacodynamics); ISOPROTERENOL (metabolism, pharmacodynamics); PHENTOLAMINE (metabolism, pharmacodynamics); PROPRANOLOL (metabolism, pharmacodynamics); PROTEIN BINDING; RECEPTORS, ADRENERGIC (drug effects); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.]

Burr IM

EXTRACELLULAR CALCIUM AND ADRENERGIC AND CHOLINERGIC EFFECTS ON ISLET BETA-CELL FUNCTION. Burr IM, Slonim AE, Burke V, Fletcher T *Am J Physiol* 231: 1246-9, Oct 76 (Eng) DL/77FEB476

ACETYLCHOLINE (pharmacodynamics); ANIMAL; BINDING SITES; BIOLOGICAL TRANSPORT, ACTIVE; CALCIUM (pharmacodynamics); CELL MEMBRANE PERMEABILITY; EPINEPHRINE (pharmacodynamics); EXTRACELLULAR SPACE; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, secretion); MALE; RATS; STIMULATION, CHEMICAL; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.]

Burrill PH

EFFECTS OF NA& DEPLETION, THEOPHYLLINE AND 2,4-DINITROPHENOL ON NEUTRAL AMINO ACID INFLUX AND CYCLIC ADENOSINE 3,5-MONOPHOSPHATE LEVELS IN CHICKEN SMALL INTESTINE. Burrill PH, Sattelmeyer PA, Lerner J *Comp Biochem Physiol* [C] 53: 95-9, 1976 (Eng) *DL/77FEB543

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ALANINE (metabolism); AMINO ACIDS (metabolism); ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT, ACTIVE; CHICKENS (metabolism); DINITROPHENOLS (pharmacodynamics); GLYCINE (metabolism); INTESTINAL MUCOSA (drug effects, metabolism); INTESTINE, SMALL (drug effects, metabolism); KINETICS; LEUCINE (metabolism); MALE; PROLINE (metabolism); SODIUM (pharmacodynamics); THEOPHYLLINE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.]

Burton CE

DIET-INDUCED ALTERATIONS OF HIGH SECRETION IN MAN. Merimee TJ, Pulkkinen AJ, Burton CE *J Clin Endocrinol Metab* 62: 931-7, May 76 (Eng) *DL/77FEB578

Bussolati G

[ENDOCRINE CELLS PRODUCING POLYPEPTIDES AND BIOGENIC AMINES] Bussolati G *Riv Istochim Norm Patol* 18: 95-118, 1974 (Ita) *DL/77FEB679

ANIMAL EXPERIMENTS (analysis); BIOGENIC AMINES (biosynthesis); BRONCHI (metabolism); CORTICOTROPIN (biosynthesis); DOGS; ENDOCRINE GLANDS (metabolism, ultrastructure); ENTEROCHROMAFFIN CELLS (metabolism); HUMAN; PANCREAS (metabolism); PEPTIDES (biosynthesis); PITUITARY GLAND (metabolism); RABBITS; RATS; SEROTONIN (biosynthesis); SWINE.

Bussos S

DISCUSSION PAPER ON CHOLINERGIC REGULATION OF GLYCOGENOLYSIS AND PROTEIN SECRETION IN RAT SALIVARY GLANDS. PP. 295-6. Rossignol B, Herman G, Keryer G, Chambaut-Guerin AM, Ovtracht L, Bussos S, Brown EM, Fedak SA, Woodard CJ, Urbach GD *In Case RM, Goebl H, ed. Stimulus-secretion coupling in the gastrointestinal tract.* Baltimore, Univ Park Press, 1976. W1 102 S859 1975. (Eng) *DL/77FEB585

Butenandt O

[GROWTH HORMONE DETERMINATIONS IN CHILDREN WITH RHEUMATOID ARTHRITIS AND STILL'S SYNDROME (PROCEEDINGS)] Butenandt O, Eder R, Clados-Kelch A *Z Rheumatol* 35 suppl 4: suppl 47-53, 1976 (Ger) DL/77FEB445

ADOLESCENCE; ARTHRITIS, JUVENILE RHEUMATOID (blood, drug therapy); CHILD; CORTICOTROPIN (therapeutic use); ENGLISH ABSTRACT; GLUCOCORTICIDS (therapeutic use); HUMAN; INSULIN (diagnostic use); SOMATOTROPIN (blood).

MEAN 24-HOUR GROWTH HORMONE AND TESTOSTERONE CONCENTRATIONS IN RELATION TO PUBERTAL GROWTH SPURT IN BOYS WITH NORMAL OR DELAYED PUBERTY. Butenandt O, Eder R, Wohlfarth K, Bidlingmaier F, Knorr D *Eur J Pediatr* 122: 85-92, 4 May 76 (Eng) *DL/77FEB551

ADOLESCENCE; AGE FACTORS; BODY HEIGHT; CHILD; GROWTH; HUMAN; MALE; PUBERTY; SOMATOTROPIN (blood); TESTOSTERONE (blood).

Cacs C

THE MECHANISM OF HYPOGLYCEMIA DUE TO SEMISTARVATION IN THE RAT. Cacs C *J Nutr* 106: 1557-61, Nov 76 (Eng) DL/77FEB202

ALANINE (metabolism); ANIMAL; BLOOD SUGAR (metabolism); DISEASE MODELS, ANIMAL; ENERGY METABOLISM; GLUCAGON (metabolism); GLUCOSE (metabolism); GLYCERIN (metabolism); HYPOGLYCEMIA (etiology, metabolism); LIPIDS (metabolism); MALE; PROTEIN-CALORIE MALNUTRITION (complications, metabolism); RATS.

Camanni F

DOPAMINE AND INHIBITION OF PROLACTIN AND GROWTH-HORMONE SECRETION. Massara F, Camanni F, Belforte L, Molinatti GM *Lancet* 1: 913, 24 Apr 76 (Eng) *DL/77FEB606

Camerini-Davalos RA

ELEVATED KIDNEY GLUCOSYLTRANSFERASE ACTIVITY IN GENETIC PRE-DIABETIC MICE. Reddi AS, Oppermann W, Reddy MP, Velasco CA, Camerini-Davalos RA *Experientia* 32: 1237-8, 15 Oct 76 (Eng) DL/77FEB75

Camilleri JP

[MACRO AND MICRO DIABETIC ANGIOPATHIES. ANATOMO-PATHOLOGIC ASPECTS] Diebold J, Camilleri JP *Rev Prat* 26: 3075-82, 11 Oct 76 (Fre) DL/77FEB380

Campbell IW

PLASMA RENIN ACTIVITY IN DIABETIC AUTONOMIC NEUROPATHY. Campbell IW, Ewing DJ, Anderson JL, Thompson JH, Horn DB, Clarke BF *Eur J Clin Invest* 6: 381-5, 10 Sep 76 (Eng) DL/77FEB73

ADULT; AUTONOMIC NERVOUS SYSTEM (physiopathology); DIABETIC NEPHROPATHIES (physiopathology); DIABETIC NEUROPATHIES (blood, physiopathology); HUMAN; HYPOTENSION, ORTHOSTATIC (blood); IMPOTENCE; MALE; MIDDLE AGE; POSTURE; REFLEX; RENIN (blood).

Campillo JE

INHIBITION OF THE GLUCOSE INDUCED INSULIN RELEASE BY SOMATOSTATIN IN THE ISOLATED PERFUSED RAT PANCREAS. ACTION OF CYCLIC AMP, GLUCAGON AND GLIBENCLAMIDE. Osorio J, Campillo JE, de los Arcos JG, Pages I, Rodriguez E, Marasco M, Melani F *Rev Esp Fisiol* 32: 211-6, Sep 76 (Eng) DL/77FEB372

Campos MM

Campos MM

HYPERALIMENTATION IN THE MANAGEMENT OF CHRONIC INFLAMMATORY INTESTINAL DISEASE. Dean RE, Campos MM, Barrett B *Dis Colon Rectum* 19: 601-4, Oct 76 (Eng) DL/77FEB62

Capito K

INOSINE-STIMULATED INSULIN RELEASE AND METABOLISM OF INOSINE IN ISOLATED MOUSE PANCREATIC ISLETS. Capito K, Hedeskov CJ *Biochem J* 158: 335-40, 15 Aug 76 (Eng) DL/77FEB505

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL; CAFFEINE (pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG; FRUCTOSEPHOSPHATES (metabolism); GLUCOSE (pharmacodynamics); GLUCOSEPHOSPHATES (metabolism); INOSINE (metabolism, pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (metabolism, secretion); LACTATES (metabolism); MANNOHEPTULOSE (pharmacodynamics); MICE; PURINE NUCLEOSIDE PHOSPHORYLASES (metabolism); STARVATION (metabolism).

Capraro V

EFFECT OF ETHYL ACETATE ON THE TRANSPORT OF SODIUM AND GLUCOSE IN THE HAMSTER SMALL INTESTINE IN VITRO. Esposito G, Faelli A, Capraro V *Biochim Biophys Acta* 426: 489-98, 19 Mar 76 (Eng) *DL/77FEB520

Carageorgiou-Markomihalakis H

STUDIES WITH FLUTOREX, A NEW ANORECTIC DRUG, ON GLUCOSE UPTAKE INTO HUMAN ISOLATED SKELETAL MUSCLE. Kirby MJ, Carageorgiou-Markomihalakis H, Turner P *Br J Clin Pharmacol* 2: 541-2, Dec 75 (Eng) DL/77FEB86

Carballo LC

ADRENERGIC NEUROHUMORS IN THE HEART OF HAMSTERS WITH HEREDITARY MYOPATHY DURING CARDIAC HYPERTROPHY AND FAILURE. Angelakos ET, Carballo LC, Daniels JB, King MP, Bajusz E *Recent Adv Stud Cardiac Struct Metab* 1: 262-78, 1972 (Eng) *DL/77FEB641

Carcano G

INFLUENCE OF POLARIZING INFUSIONS ON ANTHIARRHYTHMIC EFFECTS OF BETA-BLOCKERS. Rossi P, Aralda D, Cernigliaro C, D'Aulero M, Carcano G *Ital Cardiol* 6: 620-7, 1976 (Eng) DL/77FEB126

Carew TE

A MECHANISM BY WHICH HIGH-DENSITY LIPOPROTEINS MAY SLOW THE ATHEROGENIC PROCESS. Carew TE, Koschinsky T, Hayes SB, Steinberg D *Lancet* 1: 1315-7, 19 Jun 76 (Eng) *DL/77FEB607

ANIMAL EXPERIMENTS (analysis); ARTERIES; ARTERIOSCLEROSIS (etiology); ATHEROSCLEROSIS (etiology, prevention & control); BINDING SITES, BIOLOGICAL TRANSPORT, ACTIVE, CELL MEMBRANE (metabolism); CHOLESTEROL (metabolism); HUMAN; HYPERLIPIDEMIA (complications, prevention & control); LIPOPROTEINS, HDL (blood, pharmacodynamics); LIPOPROTEINS, LDL (antagonists & inhibitors, metabolism); MUSCLE, SMOOTH (metabolism); SWINE; TISSUE CULTURE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Carlsson C

THE EFFECT OF HYPERTHERMIA UPON OXYGEN CONSUMPTION AND UPON ORGANIC

PHOSPHATES, GLYCOLYTIC METABOLITES, CITRIC AND CYCLE INTERMEDIATES AND ASSOCIATED AMINO ACIDS IN RAT CEREBRAL CORTICES. Carlsson C, Hagerdal M, Siesjö BK *J Neurochem* 26: 1001-6, May 76 (Eng) *DL/77FEB599

ADENINE NUCLEOTIDES (metabolism); ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE MONOPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); AMINO ACIDS (metabolism); ANIMAL EXPERIMENTS (analysis); BODY WATER (metabolism); CEREBRAL CORTEX (metabolism); FEVER (metabolism); GLUCOSE (metabolism); GLYCOLYSIS; KREBS CYCLE; MALE; OXYGEN CONSUMPTION; PHILIPPINES (physiology); PHOSPHOCREATINE (metabolism); RATS; TEMPERATURE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Carpenter JO

COMPARISON OF HOSPITAL ADMISSIONS FOR CEREBROVASCULAR DISEASE IN MICHIGAN AND NORTH CAROLINA. Wylie CM, Carpenter JO *J Community Health* 2: 21-30, Fall 76 (Eng) DL/77FEB170

Carpentier J

INFLUENCE OF METFORMIN ON ARGININE-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ *Diabete Metab* 1: 23-8, Mar 75 (Eng) DL/77FEB84

ADULT; AGED; ARGININE (diagnostic use); BLOOD SUGAR (metabolism); BODY WEIGHT; DIABETES MELLITUS (blood, drug therapy); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLUCAGON (blood); HUMAN; INSULIN (blood); MALE; METFORMIN (pharmacodynamics, therapeutic use); MIDDLE AGE.

Carrel RE

KETONIC DIET IN THE MANAGEMENT OF PYRUVATE DEHYDROGENASE DEFICIENCY. Falk RE, Cederbaum SD, Blass JP, Gibson GE, Kark RA, Carrel RE *Pediatrics* 58: 713-21, Nov 76 (Eng) DL/77FEB338

Carter DC

EFFECT OF THE HISTAMINE H2-RECEPTOR ANTAGONIST, CIMETIDINE, ON GASTRIC SECRETION AND SERUM GASTRIN DURING INSULIN INFUSION IN MAN. Carter DC, Forrest JA, Logan RA, Ansell I, Lidgard G, Heading RC, Shearman DJ *Scand J Gastroenterol* 11: 565-70, 1976 (Eng) DL/77FEB393

ADULT; DEPRESSION, CHEMICAL; GASTRIC JUICE (secretion); GASTRIC MUCOSA (secretion); GASTRIN (blood); GUANIDINES (pharmacodynamics); HISTAMINE H2 RECEPTOR BLOCKADERS (pharmacodynamics); HUMAN; IMIDAZOLES (pharmacodynamics); INSULIN (diagnostic use); MALE; PEPsin (secretion); SECRETORY RATE (drug effects).

Carter WP Jr

DRUG INDUCED HYPOGLYCEMIA AND HYPOTHERMIA. Carter WP Jr *J Maine Med Assoc* 67: 272, 279, Sep 76 (Eng) DL/77FEB197

ADULT; ALCOHOLISM (complications); CASE REPORT; HUMAN; HYPOGLYCEMIA (chemically induced, complications); HYPOTHERMIA (etiology); MALE; MIDDLE AGE.

Cartry E

[DIABETES MELLITUS UNDER 30 YEARS OF AGE. RESULTS OF 18 YEARS EXPERIENCE WITH ORAL TREATMENT (AUTHORS TRANSL.)] Mirouze J, Cartry E *Diabete Metab* 1: 113-8, Jun 75 (Fre) DL/77FEB92

Carulli N

ALTERATION OF DRUG METABOLISM IN GILBERTS SYNDROME. Carulli N, Ponz de Leon M, Mauro E, Manenti F, Ferrari A *Gut* 17: 581-7, Aug 76 (Eng) DL/77FEB132

ADULT; ANIMAL; CYTOPLASM (metabolism); GILBERTS DISEASE (metabolism); HALF-LIFE; HUMAN; HYPERBILIRUBINEMIA, HEREDITARY (metabolism); LIVER (metabolism); MALE; PHENOBARBITAL (pharmacodynamics); PROTEIN BINDING; RATS; RATS, INBRED STRAINS; SPECIES SPECIFICITY; TOLBUTAMIDE (metabolism, urine).

Case RB

MYOCARDIAL POTASSIUM LOSS DURING ISCHEMIA. Case RB *Recent Adv Stud Cardiac Struct Metab* 1: 665-72, 1972 (Eng) *DL/77FEB650

ANGINA PECTORIS (metabolism); ANIMAL EXPERIMENTS (analysis); CORONARY CIRCULATION; CORONARY DISEASE (metabolism); DISEASE MODELS, ANIMAL; DOGS; HEART SURGERY; HUMAN; LACTATES (metabolism); MYOCARDIUM (metabolism); POTASSIUM (metabolism).

Case RM

EFFECTS OF GROWTH HORMONE-RELEASE INHIBITING HORMONE (GH-RIH OR SOMATOSTATIN) ON SECRETORY PROCESSES IN STOMACH AND PANCREAS. PP. 407-12. Albinus M, Case RM, Reed JD, Shaw B, Smith PA, Gomez-Pan A, Hall R, Besser GM, Schally AV *InO Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract. Baltimore, Univ Park Press, 1976. W1 102 \$859 1975. (Eng) *DL/77FEB586*

Casparly WF

EFFECT OF CHRONIC GLUCAGON-ADMINISTRATION ON THE DIGESTIVE AND ABSORPTIVE FUNCTION OF RAT SMALL INTESTINE IN VIVO. Casparly WF, Lucke H *Res Exp Med (Berl)* 167: 1-13, 27 Feb 76 (Eng) DL/77FEB373

ALKALINE PHOSPHATASE (analysis); ANIMAL; DIABETES MELLITUS (metabolism); DISACCHARIDASES (analysis); FEMALE; GLUCAGON (pharmacodynamics); INTESTINAL ABSORPTION (drug effects); JEJUNUM (metabolism); MEMBRANE POTENTIALS (drug effects); METHYLGLUCOSIDES (metabolism); POTASSIUM (metabolism); RATS; SODIUM (metabolism); WATER (metabolism).

Caster WO

THE ROLE OF NUTRITION IN HUMAN AGING. PP. 29-45. Caster WO *InO Rockstein M, Sussman ML, ed. Nutrition, longevity, and aging. New York, Academic Press, 1976. WT 104 N977 1976. (Eng) [71] DL/77FEB192*

ADULT; AGED; AGING; ANIMAL; BODY WEIGHT; BONE AND BONES (metabolism); CALORIC INTAKE; CAPROATES; CARCINOGENESIS; CARDIOVASCULAR DISEASES (etiology, metabolism); DIABETES MELLITUS (metabolism, mortality); DIETARY FATS; GLUCOSE (metabolism); HUMAN; HYPERGLYCEMIA (chemically induced); MALE; MONOGRAPH (mortality); NEOPLASMS (metabolism); NUTRITION; OBESITY (etiology, metabolism); PHYSICAL FITNESS; POVERTY; REVIEW.

Cataland S

GASTRIC INHIBITORY POLYPEPTIDE (GIP) IN MATURITY-ONSET DIABETES MELLITUS. Crockett SE, Mazzaferrri EL, Cataland S *Diabetes* 25: 931-5, Oct 76 (Eng) DL/77FEB99

Catalona WJ

ACUTE PYELONEPHRITIS SIMULATING POORLY VASCULARIZED RENAL NEOPLASM. NONSPECIFICITY OF ANGIOGRAPHIC CRITERIA. Barth KH, Lightman NI, Ridolfi RL, Catalona WJ *J Urol* 116: 650-2, Nov 76 (Eng) DL/77FEB216

Cederbaum SD

KETONIC DIET IN THE MANAGEMENT OF PYRUVATE DEHYDROGENASE DEFICIENCY. Falk RE, Cederbaum SD, Blass JP, Gibson GE, Kark RA, Carrel RE *Pediatrics* 58: 713-21, Nov 76 (Eng) DL/77FEB338

Cerasi E

ENHANCEMENT BY D2O OF GLUCOSE-INDUCED CYCLIC AMP ACCUMULATION IN RAT ISLETS OF LANGERHANS. Grill V, Cerasi E *FEBS Lett* 68: 165-9, 1 Oct 76 (Eng) DL/77FEB78

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerasi E *Diabetes Metab* 1: 51-6, Mar 75 (Eng) DL/77FEB88

FEED-BACK INHIBITION OF INSULIN SECRETION IN SUBJECTS WITH HIGH AND LOW INSULIN RESPONSE TO GLUCOSE. Cerasi E *Diabetes Metab* 1: 73-6, Jun 75 (Eng) DL/77FEB94

ADULT; BLOOD SUGAR; FEEDBACK; FEMALE; GLUCOSE (diagnostic use); HUMAN; INSULIN (blood, secretion); ISLANDS OF LANGERHANS (drug effects, secretion); MALE; MIDDLE AGE; TIME FACTORS.

POTENTIATION OF GLUCOSE-INDUCED INSULIN RELEASE BY GLUCOSE IN THE ISOLATED PANCREAS OF FED AND FASTED RATS. Efendic S, Cerasi E, Luft R, Gladnikoff G *Diabetes* 25: 949-54, Oct 76 (Eng) DL/77FEB102

Cernigliaro C

INFLUENCE OF POLARIZING INFUSIONS ON ANTIARRHYTHMIC EFFECTS OF BETA-BLOCKERS. Rossi P, Araldi D, Cernigliaro C, Daulerio M, Carcano G *Ital Cardiol* 6: 620-7, 1976 (Eng) DL/77FEB126

Cervantes C

PROPRANOLOL EFFECT ON PLASMA GLUCOSE, FREE FATTY ACID, INSULIN, AND GROWTH HORMONE IN GRAVES DISEASE. Ortigosa JL, Mendoza F, Argote RM, Garcia G, Cervantes C, Parra A *Metabolism* 25: 1201-7, Nov 76 (Eng) DL/77FEB260

Chambaut-Guerin AM

DISCUSSION PAPER ON CHOLINERGIC REGULATION OF GLYCOGENOLYSIS AND PROTEIN SECRETION IN RAT SALIVARY GLANDS. PP. 295-6. Rossignol B, Herman G, Keryer G, Chambaut-Guerin AM, Ovtchacht L, Busson S, Brown EM, Fedak SA, Woodard CJ, Aurbach GD *In Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract. Baltimore, Univ Park Press, 1976. W1 102 S859 1975. (Eng) *DL/77FEB585*

Chambon H

TOTAL PANCREATCTOMY IN THE TREATMENT OF ACUTE NECROTISING AND HEMORRHAGIC PANCREATITIS. INDICATIONS-TECHNIQUE. Alexandre JH, Chambon H, Assan R *Langenbecks Arch Chir* 340: 231-47, 23 Apr 76 (Eng) DL/77FEB255

Chan TM

A RAPID METHOD FOR THE DETERMINATION OF GLYCOGEN CONTENT AND RADIOACTIVITY IN SMALL QUANTITIES OF TISSUE OR ISOLATED HEPATOCYTES.

Chan TM, Exton JH *Anal Biochem* 71: 96-105, Mar 76 (Eng) *DL/77FEB701

ADRENALCTOMY; ALANINE (metabolism); ANIMAL EXPERIMENTS (analysis); CHROMATOGRAPHY, PAPER; COMPARATIVE STUDY; GLUCOSE (metabolism); GLUCOSIDASES (metabolism); LEUCINE (metabolism); LIVER GLYCOGEN (analysis, biosynthesis); MICE; INBRED C57BL; MICROCHEMISTRY.

Chanez C

STUDIES ON EXPERIMENTAL HYPOTROPHY IN THE RAT. III. PLASMA INSULIN AND GLUCAGON. Girard JR, Chanez C, Kervran A, Tordet-Caridroit C, Assan R *Biol Neonate* 29: 262-6, 1976 (Eng) DL/77FEB13

Chariot J

[PANCREATIC SECRETION IN RATS. A COMPARATIVE STUDY OF BASAL AND STIMULATED SECRETIONS IN ACUTE AND CHRONIC FISTULA CONDITIONS (AUTHORS TRANSL)]. Chariot J, Roze C, de La Tour J, Souchard M, Vaillie C, Debray C *Pathol Biol (Paris)* 24: 457-61, Sep 76 (Fre) DL/77FEB336

ACETYLCHOLINE (pharmacodynamics); ANESTHESIA; ANIMAL; BICARBONATES (analysis); COMPARATIVE STUDY; DEOXYGLUCOSE (pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG; DRAINAGE (methods); ENGLISH ABSTRACT; IMMOBILIZATION; INSULIN (pharmacodynamics); LIGATION; MALE; MODELS, BIOLOGICAL; PANCREAS (secretion); PANCREATIC JUICE (secretion); PROTEINS (analysis); RATS; SECRETIN (pharmacodynamics); SECRETORY RATE (drug effects); STIMULATION, CHEMICAL; WATER (analysis).

Chavarria Bonequi C

[RELATIONSHIPS BETWEEN THYROTROPIN, GROWTH HORMONE AND INSULIN IN HYPOTHYROIDISM] Vergara Rodriguez J, De Los Monteros Mena AE, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 1021-31, Sep-Oct 76 (Spa) DL/77FEB1

[INTRAVENOUS AND ORAL GLUCOSE: PRODUCTION OF INSULIN AND GROWTH HORMONE IN THE NEWBORN INFANT] Dorantes Alvarez L, De Los Monteros Mena AE, Matus Seueira A, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 979-92, Sep-Oct 76 (Spa) DL/77FEB3

Chcinska Z

[RESULTS OF TREATMENT OF DIABETES IN SIPIDUS WITH PFIZERS DIABINESE (AUTHORS TRANSL)] Chcinska Z, Galazka A, Gruszka S, Stepień M, Milewicz A, Szklarz E *Przegl Lek* 33: 697-9, 1976 (Pol) DL/77FEB370

ADOLESCENCE; ADULT; CHILD; CHLORPROPAMIDE (adverse effects, therapeutic use); DIABETES INSIPIDUS (drug therapy); DRUG EVALUATION; ENGLISH ABSTRACT; FEMALE; HUMAN; HYPOGLYCEMIA (chemically induced); MALE; MIDDLE AGE.

Chen WY

EFFECTS OF MITOGENS ON GLUCOSE OXIDATION BY LYMPHOCYTES FROM NORMAL INDIVIDUALS AND PATIENTS WITH CHRONIC LYMPHOCYTIC LEUKEMIA. Tsan MF, Chen WY, Newman B, Wagner HN Jr, McIntyre PA *Johns Hopkins Med J* 138: 113-8, Apr 76 (Eng) *DL/77FEB603

Cherrington AD

STUDIES ON THE ROLE OF CAMP-DEPENDENT PROTEIN KINASE IN THE ACTIONS OF GLUCAGON AND CATECHOLAMINES ON LIVER GLYCOGEN METABOLISM. Cher-

ington AD, Exton JH *Metabolism* 25: 1351-4, Nov 76 (Eng) DL/77FEB272

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism, pharmacodynamics); ANIMAL; DOSE-RESPONSE RELATIONSHIP, DRUG; EPINEPHRINE (pharmacodynamics); GLUCAGON (pharmacodynamics); GLYCOGEN PHOSPHORYLASE (metabolism); LIVER GLYCOGEN (metabolism); PHENYLEPHRINE (pharmacodynamics); PROTEIN KINASE (metabolism); RATS; RECEPTORS, ADRENERGIC (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

AN IMPORTANT ROLE FOR GLUCAGON IN THE REGULATION OF GLUCOSE PRODUCTION IN VIVO. Liljenquist JE, Chiasson JL, Cherrington AD, Keller U, Jennings AS, Bomboy JD, Lacy WW *Metabolism* 25: 1371-3, Nov 76 (Eng) DL/77FEB276

Chiasson JL

AN IMPORTANT ROLE FOR GLUCAGON IN THE REGULATION OF GLUCOSE PRODUCTION IN VIVO. Liljenquist JE, Chiasson JL, Cherrington AD, Keller U, Jennings AS, Bomboy JD, Lacy WW *Metabolism* 25: 1371-3, Nov 76 (Eng) DL/77FEB276

Chiba S

EFFECT OF SECRETIN ON PACEMAKER ACTIVITY AND CONTRACTILITY IN THE ISOLATED BLOOD-PERFUSED ATRIUM OF THE DOG. Chiba S *Clin Exp Pharmacol Physiol* 3: 167-72, Mar-Apr 76 (Eng) DL/77FEB45

ALPRENOLOL (pharmacodynamics); ANIMAL; ATROPINE (pharmacodynamics); DOGS; GLUCAGON (pharmacodynamics); HEART RATE (drug effects); HEART (drug effects); IN VITRO; MYOCARDIAL CONTRACTION (drug effects); PERFUSION; SECRETIN (pharmacodynamics); SINO-ATRIAL NODE (drug effects); STIMULATION, CHEMICAL.

Chick WL

PANCREATIC BETA CELL REPLICATION: EFFECTS OF HEXOSE SUGARS. King DL, Chick WL *Endocrinology* 99: 1003-9, Oct 76 (Eng) DL/77FEB68

PARTIAL PURIFICATION AND CHARACTERIZATION OF THE MRNA FOR RAT PREPROINSULIN. Duguid JR, Steiner DF, Chick WL *Proc Natl Acad Sci USA* 73: 3539-43, Oct 76 (Eng) DL/77FEB359

Chieri RA

EVIDENCE FOR A HYPOPHYSEAL FACTOR THAT STIMULATES INSULIN SECRETION BY THE PANCREAS (INSULOTROPINE) Chieri RA, Basabe JC, Farina JM *Horm Metab Res* 8: 329-32, Sep 76 (Eng) DL/77FEB137

ANIMAL; DOGS; FEMALE; GLUCOSE (pharmacodynamics); HYPOPHYSECTOMY; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, secretion); MALE; PITUITARY GLAND (physiology).

Chiodini PG

NEUROENDOCRINE CONTROL OF GROWTH HORMONE SECRETION: EXPERIMENTAL AND CLINICAL STUDIES. PP. 236-51. Luzzi A, Panerai AE, Chiodini PG, Secchi C, Cocchi D, Botalla L, Silvestrini F, Muller EE *Ino Picile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB185*

Chlud K

[INTERACTIONS BETWEEN DICLOFENAC AND GLIBENCLAMIDE] Chlud K *Z Rheumatol* 35: 377-82, Sep-Oct 76 (Ger) DL/77FEB444

ADULT; ANALGESICS, ANTI-INFLAMMATORY (adverse effects); CLINICAL RESEARCH; COMPARATIVE STUDY; DIABETES MELLITUS (drug therapy); DICLOFENAC (adverse effects, therapeutic use);

Cho F

DRUG INTERACTIONS; ENGLISH ABSTRACT; FEMALE; GLIBENCLAMIDE (adverse effects, therapeutic use); GLUCOSE (metabolism); HUMAN; MALE; MIDDLE AGE; PHENYLACETATES (adverse effects); PLACEBOS.

Cho F

ORAL GLUCOSE TOLERANCE TEST IN THE CYNOMOLGUS MONKEY (MACACA FASCICULARIS). Honjo S, Kondo Y, Cho F *Lab Anim Sci* 26: 771-6, Oct 76 (Eng) DL/77FEB231

Chodorowski Z

[SELECTED PHSIOPATHOLOGICAL AND CLINICAL ASPECTS OF PURINE METABOLISM] Chodorowski Z, Pol Tyg Lek 31: 1733-5, 4 Oct 76 (Pol) [30] DL/77FEB349

ALKALOSIS, RESPIRATORY (physiopathology); DIABETES MELLITUS (physiopathology); DIURESIS, EXERTION, FEMALE; FRUCTOSE INTOLERANCE (physiopathology); GLOMERULAR FILTRATION RATE; GOUT (physiopathology); HODGKINS DISEASE (physiopathology); HUMAN; HYPERLIPIDEMIA (physiopathology); MALE; MAPLE SYRUP URINE DISEASE (physiopathology); OBESITY (physiopathology); PREGNANCY TOXEMIAS (physiopathology); PREGNANCY; PURINE-PYRIMIDINE METABOLISM, INBORN ERRORS (physiopathology); PURINES (metabolism); REVIEW; URIC ACID (blood).

Chowdhury NK

EFFECT OF PHENFORMIN AND ETHYLOESTRENOL ON BLOOD FIBRINOLYTIC ACTIVITY ON RABBITS MAINTAINED ON HIGH CHOLESTEROL DIET. Sharma KK, Chowdhury NK, Sharma AL *Indian J Med Res* 64: 915-22, Jun 76 (Eng) DL/77FEB149

Chretien M

MULTIPOTENT LIPOTROPIC HORMONES. IN SEARCH OF A PITUITARY CELL PRODUCING MULTIPOTENT LPH. Furth J, Chretien M, Lis M, Belanger A, Moy P, Grauman J *Arch Pathol* 99: 572-81, Nov 75 (Eng) *DL/77FEB710

Christenson RK

INFLUENCE OF DIETARY ENERGY DURING GESTATION ON LAMBING PERFORMANCE, AND GLUCOSE METABOLISM IN FINNCROSS EWES. Prior RL, Christenson RK *J Anim Sci* 43: 1114-24, Nov 76 (Eng) DL/77FEB155

Christlieb AR

PLASMA RENIN ACTIVITY AND HYPERTENSION IN DIABETES MELLITUS. Christlieb AR, Kaldany A, Delia JA *Diabetes* 25: 969-74, Oct 76 (Eng) DL/77FEB105

ADULT DIABETES MELLITUS (complications, metabolism, physiopathology); DIABETIC NEPHROPATHIES (complications, drug therapy, metabolism); FEMALE; FUROSEMIDE (therapeutic use); HUMAN; HYPERTENSION (complications, drug therapy, metabolism); MALE; MIDDLE AGE; POSTURE; POTASSIUM (metabolism); RENIN (blood); SODIUM (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Christophe J

EFFECTS OF SOMATOSTATIN ON PANCREATIC EXOCRINE FUNCTION, INTERACTION WITH SECRETIN. Deschodt-Lanckman M, Robberecht P, Pector JC, Christophe J *Arch Int Physiol Biochim* 83: 960-1, Dec 75 (Eng) *DL/77FEB705

Chvapil M

EFFECT OF ZINC ON CELLS AND BIOMEMBRANES. Chvapil M *Med Clin North Am* 60: 799-812, Jul 76 (Eng) [42] *DL/77FEB605

Diabetes Literature—Author Index

ANIMAL EXPERIMENTS (analysis); BLOOD CELLS (drug effects, physiology); BLOOD PLATELETS; BODY FLUIDS; CATIONS, DIVALENT; CELL MEMBRANE; CONNECTIVE TISSUE CELLS (drug effects, physiology); HUMAN; LEUKOCYTES; LYMPHOCYTES; MACROPHAGES; MALE; MAST CELLS; MEMBRANES; PHAGOCYTOSIS (drug effects); PLATELET AGGREGATION (drug effects); PROSTATE; REVIEW; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); ZINC (pharmacodynamics, physiology).

Ciba T

THE INFLUENCE OF INSULIN ON THE PROPORTION OF NEUTRAL SUGARS IN SEROMUCOID OF DIABETIC PATIENTS. Guzdek A, Ciba T, Sarnecka-Keller M *Clin Chim Acta* 72: 401-4, 1 Nov 76 (Eng) DL/77FEB44

Clados-Kelch A

[GROWTH HORMONE DETERMINATIONS IN CHILDREN WITH RHEUMATOID ARTHRITIS AND STILL'S SYNDROME (PROCEEDINGS)] Butenandt O, Eder R, Clados-Kelch A *Z Rheumatol* 35 suppl 4: suppl 47-53, 1976 (Ger) DL/77FEB445

Claire M

CHARACTERIZATION OF LIPIDS ASSOCIATED WITH MACROMOLECULES OF THE INTERCELLULAR MATRIX OF HUMAN AORTA. Claire M, Jacotot B, Robert L *Connect Tissue Res* 4: 61-71, 1976 (Eng) *DL/77FEB544

AORTA (pathology); ARTERIOSCLEROSIS (pathology); ATHEROSCLEROSIS (pathology); CHOLESTEROL (analysis); COLLAGEN; COMPARATIVE STUDY; ELASTIN; FATTY ACIDS (analysis); FATTY ACIDS, NONESTERIFIED (analysis); HUMAN; LIPIDS (analysis); PHOSPHOLIPIDS (analysis); TRIGLYCERIDES (analysis).

Clarke BF

PLASMA RENIN ACTIVITY IN DIABETIC AUTONOMIC NEUROPATHY. Campbell IW, Ewing DJ, Anderson JL, Thompson JH, Horn DB, Clarke BF *Eur J Clin Invest* 6: 381-5, 10 Sep 76 (Eng) DL/77FEB73

Claus TH

POSSIBLE ROLE OF PYRUVATE KINASE IN THE HORMONAL CONTROL OF DIHYDROXYACETONE GLUCONEOGENESIS IN ISOLATED HEPATOCYTES. Pilks SJ, Claus TH, Riou JP, Park CR *Metabolism* 25: 1355-60, Nov 76 (Eng) DL/77FEB273

HORMONAL STIMULATION OF DNA SYNTHESIS IN PRIMARY CULTURES OF ADULT RAT HEPATOCYTES. Richman RA, Claus TH, Pilks SJ, Friedman DL *Proc Natl Acad Sci USA* 73: 3589-93, Oct 76 (Eng) DL/77FEB360

Clements RS

THE ROLE OF ABNORMALITIES IN NERVE METABOLISM IN THE PATHOGENESIS OF DIABETIC PERIPHERAL NEUROPATHY. Clements RS *Ala J Med Sci* 13: 399-404, Oct 76 (Eng) DL/77FEB478

ANIMAL; DIABETES MELLITUS (metabolism); DIABETIC NEUROPATHIES (etiology, metabolism); HUMAN; MONKEYS; NERVOUS SYSTEM (metabolism); PERIPHERAL NERVE DISEASES (etiology); RABBITS; RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Clowes GH Jr

ENERGY METABOLISM AND PROTEOLYSIS IN TRAUMATIZED AND SEPTIC MAN. Clowes GH Jr, O'Donnell TF, Blackburn GL, Maki TN *Surg Clin North Am* 56: 1169-84, Oct 76 (Eng) [53] DL/77FEB406

ANIMAL; BLOOD SUGAR (metabolism); CALORIMETRY; CARDIAC OUTPUT; COMPARATIVE STUDY; ENERGY

METABOLISM; ENERGY TRANSFER; FASTING; GLUCONEOGENESIS; HUMAN; INSULIN RESISTANCE; LIPID MOBILIZATION; MUSCLE PROTEINS (metabolism); PROTEINS (biosynthesis, metabolism); REVIEW; SHOCK; SEPTIC (metabolism); SURGICAL WOUND INFECTION (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); WOUND INFECTION (metabolism); WOUNDS AND INJURIES (metabolism, surgery).

Cocchi D

NEUROENDOCRINE CONTROL OF GROWTH HORMONE SECRETION: EXPERIMENTAL AND CLINICAL STUDIES. PP. 236-51. Luzzi A, Panerai AE, Chiodini PG, Secchi C, Cocchi D, Botalla L, Silvestrini F, Muller EE *Inol Piccola A, Muller EE, ed. Growth hormone and related peptides.* Amsterdam, Excerpta Medica, 1976. W3 E:89 no.381 1975. (Eng) DL/77FEB185

Codaccioni JL

[DIABETES AND THE THIRD LIFE-PERIOD] Codaccioni JL, Aprile N *Probl Actuel Endocrinol Nutr serie 17: 167-83, 1973 (Fre)* [62] DL/77FEB355

ADULT; AGED; AGING; BLOOD SUGAR (metabolism); DIABETES MELLITUS; FEMALE; HUMAN; MALE; MIDDLE AGE; OBESITY IN DIABETES; REVIEW.

Codish SD

PANCREATIC ISLET CELL TRANSPLANTATION AND DIABETES THERAPY. Monaco AP, Codish SD *Compr Ther* 2: 29-37, Nov 76 (Eng) DL/77FEB50

Cohen J

ANNUAL REVIEW OF RETINAL RESEARCH. Cohen J *Am J Optom Physiol Opt* 53: 483-9, Sep 76 (Eng) [29] DL/77FEB471

ADOLESCENCE; ADULT; AGED; BLINDNESS (etiology); CHILD; DIABETIC RETINOPATHY (complications, pathology); EYE NEOPLASMS (etiology); FEMALE; FOVEA CENTRALIS (pathology); HUMAN; INFANT; MACULA LUTEA (pathology); MALE; MIDDLE AGE; MYCOSES (pathology); RETINA (blood supply); RETINA (innervation); RETINAL DETACHMENT (pathology); RETINAL DISEASES (pathology); RETINAL DISEASES (etiology); RETINITIS PIGMENTOSA (pathology); REVIEW.

Cole RA

BLOOD GLUCOSE MONITORING IN SYMPTOMATIC HYPOGLYCEMIA. Cole RA, Benedict GW, Margolis S, Kowarski A *Diabetes* 25: 984-8, Oct 76 (Eng) DL/77FEB108

ADULT; BLOOD SUGAR (metabolism); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; HYPOGLYCEMIA (blood, diagnosis); MALE; MIDDLE AGE; MONITORING SYSTEMS; PREDIABETIC STATE (blood); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Colgan B

VOVULUS OF THE SMALL BOWEL IN A DIABETIC PATIENT [LETTER]. Fitzgerald GA, Colgan B, Drury MI, O'Connell FX *Br Med J* 2: 945, 16 Oct 76 (Eng) DL/77FEB29

Colwell JA

TREATMENT OF DIABETES MELLITUS. Colwell JA *Compr Ther* 2: 16-21, Nov 76 (Eng) DL/77FEB48

ACIDOSIS, DIABETIC (complications); DIABETES MELLITUS (complications, drug therapy, physiopathology); DRUG HYPERSENSITIVITY; DRUG RESISTANCE; HUMAN; INFECTION (complications); INSULIN (therapeutic use); STRESS; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Diabetes Literature—Author Index

Czech MP

Compton PJ

SEROTONINERGIC CONTROL OF HUMAN GROWTH HORMONE SECRETION: THE ACTIONS OF L-DOPA AND 2-BROMO-ALPHA-ERGOCRYPTINE. PP. 222-35. Smythe GA, Compton PJ, Lazarus L. *In: Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB189*

Comte F

[PARODONTOPATHY REVEALING INSULIN-DEPENDANT DIABETES (LETTER)] Pinget M, Dörner M, Brocard JM, Comte F, Farge R, Roth JJ. *Nouv Presse Med* 5: 1995, 25 Sep 76 (Fre) DL/77FEB340

Conaway HH

IONOPHORE A23187-INDUCED INSULIN SECRETION IN THE ISOLATED, PERFUSED DOG PANCREAS. Conaway HH, Griffey MA, Marks SR, Whitney JE. *Horm Metab Res* 8: 351-3, Sep 76 (Eng) DL/77FEB140
A-23187 (pharmacodynamics); ANIMAL; ANTIBIOTICS (pharmacodynamics); CALCIUM (pharmacodynamics); DOGS; FEMALE; IN VITRO; INSULIN (secretion); MALE; PANCREAS (drug effects, secretion); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Conner JC

DIABETIC FOOT CARE EDUCATION IN A PODIATRY CLINIC: A PILOT STUDY. Scarlett JJ, Conner JC, Monastersky C. *J Am Podiatry Assoc* 66: 798-800, Oct 76 (Eng) DL/77FEB173

Connors JM

EFFECT OF AGING ON RIGHT VENTRICULAR ANOXIC RESISTANCE. Martin LG, McGrath JJ, Connors JM. *Recent Adv Stud Cardiac Struct Metab* 7: 267-74, 1975 (Eng) *DL/77FEB668

Constantopoulos A

ADENYLATE CYCLASE ACTIVITY IN HUMAN TISSUES. Constantopoulos A, Xypolita A, Matsoniotis N. *Biol Neonate* 29: 294-8, 1976 (Eng) DL/77FEB14

ADENYL CYCLASE (metabolism); FEMALE; FLUORIDES (pharmacodynamics); GLUCAGON (pharmacodynamics); HUMAN; INFANT, NEWBORN; INFANT, PREMATURE; LIVER (enzymology); LUNG (enzymology); MALE; MYOCARDIUM (enzymology); PANCREAS (enzymology); STIMULATION, CHEMICAL.

Cooper K

CONTROL OF GONADOTROPIN AND PROLACTIN SECRETION BY HYPOTHALAMIC RELEASING AND INHIBITING HORMONES. PP. 80-9. McCann SM, Cooper K, Harms PG, Libertun C, Negro-Vilar A, Ojeda SR, Orian R, Moss RL, Fawcett CP, Krulich L, Gilon C, Amoss M, Rivier C, Ling N, Burgus R, Guillemin R. *In: Lederis K, Cooper KE, ed. Recent studies of hypothalamic function. Basel, Karger, 1974. W1 312 165r 1973. (Eng) *DL/77FEB589*

Cooperstein SJ

ARNOLD LAZAROW: 1916-1975. Cooperstein SJ. *Anat Rec* 186: 247-9, Oct 76 (Eng) DL/77FEB486
ANATOMY (history); CURRENT BIOG-OBIT; DIABETES MELLITUS (history); HISTORICAL ARTICLE; HUMAN; UNITED STATES.

Corbett VA

INSULIN STIMULATION OF HEART GLUCOGEN SYNTHASE D PHOSPHATASE (PROTEIN PHOSPHATASE). Nuttali FO, Gannon MC, Corbett VA, Wheeler MP. *J Biol Chem* 251: 6724-9, 10 Nov 76 (Eng) DL/77FEB160

Cornblath M

DISORDERS OF CARBOHYDRATE METABOLISM IN INFANCY. Cornblath M, Schwartz R

Major Probl Clin Pediatr 3: 1-483, 1976 (Eng) DL/77FEB235

CARBOHYDRATE METABOLISM, INBORN ERRORS; CARBOHYDRATES (metabolism); DIABETES MELLITUS, JUVENILE (diagnosis, therapy); FEMALE; FRUCTOSE INTOLERANCE (diagnosis, therapy); GALACTOSE (metabolism); GLUCOSE (therapeutic use); GLYCOGEN (metabolism); HOMEOSTASIS; HUMAN; HYDROCORTISONE (therapeutic use); HYPOGLYCEMIA (diagnosis, drug therapy, occurrence, therapy); INFANT; INFANT, NEWBORN; MALABSORPTION SYNDROMES (physiopathology); MALE; METABOLIC DISEASES; PREGNANCY IN DIABETES (complications); PREGNANCY; SYNDROME.

Cote TE

BIOLOGIC ACTIVITY AND CONFORMATIONAL PROPERTIES OF GLUCAGON AND GLUCAGON ANALOGS. Epand RM, Cote TE, Hoa DH, Rosselin G, Schreier S. *Metabolism* 25: 1317-8, Nov 76 (Eng) DL/77FEB264

Crane FL

HORMONE REGULATED REDOX FUNCTION IN PLASMA MEMBRANES. Low H, Crane FL. *FEBS Lett* 68: 157-9, 1 Oct 76 (Eng) DL/77FEB77

Crane RK

SYNTHESIS OF SOME BETA-O-GLUCOPYRANOSIDES HAVING A HYDROPHOBIC AGLYCON GROUP TERMINATED WITH A HYDROPHILIC GROUP. Bhattacharyya BR, Ramaswamy K, Crane RK. *Carbohydr Res* 47: 167-71, Mar 76 (Eng) *DL/77FEB530

Crass MF 3d

METABOLISM OF EXOGENOUS AND ENDOGENOUS FATTY ACIDS IN HEART MUSCLE. Crass MF 3d, Shipp JC. *Recent Adv Stud Cardiac Struct Metab* 1: 115-26, 1972 (Eng) *DL/77FEB634

ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT, ACTIVE; CARBON DIOXIDE (metabolism); FATTY ACIDS, NONESTERIFIED (biosynthesis); GLUCOSE (metabolism); GLYCOGEN (metabolism); MALE; MYOCARDIAL CONTRACTION; MYOCARDIUM (metabolism); PALMITIC ACIDS (metabolism); PERFUSION; PHOSPHOLIPIDS (biosynthesis); PRESSURE; RATS, TRIGLYCERIDES (metabolism).

UTILIZATION OF ENDOGENOUS LIPIDS AND GLYCOGEN IN THE PERFUSED RAT HEART: EFFECTS OF HYPOXIA AND EPINEPHRINE. Crass MF 3d, Shipp JC, Pieper GM. *Recent Adv Stud Cardiac Struct Metab* 7: 219-24, 1975 (Eng) *DL/77FEB661

ANIMAL EXPERIMENTS (analysis); ANOXIA (metabolism); EPINEPHRINE (pharmacodynamics); GLYCOGEN (metabolism); IN VITRO, LIPID MOBILIZATION (drug effects); LIPIDS (metabolism); MALE; MYOCARDIUM (metabolism); PALMITIC ACIDS (metabolism); RATS.

TRANSMURAL GRADIENTS IN THE ISCHEMIC DOG LEFT VENTRICLE: METABOLISM OF ENDOGENOUS TRIGLYCERIDES AND GLYCOGEN. Crass MF 3d, Holsinger JW Jr, Shipp JC, Eliot RS, Pieper GM. *Recent Adv Stud Cardiac Struct Metab* 7: 225-30, 1975 (Eng) *DL/77FEB662

ANIMAL EXPERIMENTS (analysis); CORONARY DISEASE (metabolism); DOGS; GLYCOGEN (metabolism); HEART VENTRICLE (metabolism); MYOCARDIUM (metabolism); PALMITIC ACIDS (metabolism); TIME FACTORS; TRIGLYCERIDES (metabolism).

Creutzfeldt W

SOMATOSTATIN AND INSULIN RELEASE FROM ISOLATED RAT PANCREATIC ISLETS STIMULATED BY GLUCOSE. Schauder P, McIntosh C, Arends J, Arnold R, Frerichs H, Creutzfeldt W. *FEBS Lett* 68: 225-7, 1 Oct 76 (Eng) DL/77FEB79

Crites SK

REGULATION OF GLYCOGEN METABOLISM IN ASTROCYTOMA AND NEUROBLASTOMA CELLS IN CULTURE. Passonneau JV, Crites SK. *J Biol Chem* 241: 2015-22, 10 Apr 76 (Eng) *DL/77FEB568

Crockett SE

GASTRIC INHIBITORY POLYPEPTIDE (GIP) IN MATURITY-ONSET DIABETES MELLITUS. Crockett SE, Mazzaferri EL, Cataland S. *Diabetes* 25: 931-5, Oct 76 (Eng) DL/77FEB99
ADULT; AGE FACTORS; BLOOD SUGAR (metabolism); COMPARATIVE STUDY; FASTING; FEMALE; GASTRIC INHIBITORY POLYPEPTIDE (blood, physiology); GASTROINTESTINAL HORMONES (blood); GLUCOSE TOLERANCE TEST; GLUCOSE (pharmacodynamics); HUMAN; INSULIN (blood); MIDDLE AGE; OBESITY IN DIABETES (blood); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Cronan JE Jr

EVIDENCE FOR A DIRECT EFFECT ON FATTY ACID SYNTHESIS IN RELATION TO CONTROL OF MEMBRANE PHOSPHOLIPID SYNTHESIS. Nunn WD, Cronan JE Jr. *J Mol Biol* 102: 167-72, 25 Mar 76 (Eng) *DL/77FEB602

Cronin RF

MYOCARDIAL METABOLISM IN EXPERIMENTAL CARDIOGENIC SHOCK. Cronin RF, Zsoter T, Hollenberg CH. *Recent Adv Stud Cardiac Struct Metab* 1: 95-100, 1972 (Eng) *DL/77FEB656

ANIMAL EXPERIMENTS (analysis); DISEASE MODELS, ANIMAL; DOGS; FATTY ACIDS, NONESTERIFIED (metabolism); GLUCOSE (metabolism); LACTATES (metabolism); MYOCARDIUM (metabolism); OXYGEN CONSUMPTION; OXYGEN; PARTIAL PRESSURE; SHOCK, CARDIOGENIC (metabolism); TRIGLYCERIDES (metabolism).

Cullen DR

GASTRIC EMPTYING OF SOLID MEALS IN DIABETICS. Scarpello JH, Barber DC, Hague RV, Cullen DR, Sladen GE. *Br Med J* 2: 671-3, 18 Sep 76 (Eng) DL/77FEB22

THE 14C-GLYCOCHOLATE TEST IN DIABETIC DIARRHOEA. Scarpello JH, Hague RV, Cullen DR, Sladen GE. *Br Med J* 2: 673-5, 18 Sep 76 (Eng) DL/77FEB23

Curry DL

GROWTH HORMONE AND INSULIN SECRETION. PP. 116-26. Bennett LL, Curry DL. *In: Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB180*

Czech MP

CHARACTERIZATION OF (3H)CYTOCHALASIN B BINDING TO THE FAT CELL PLASMA MEMBRANE. Czech MP. *J Biol Chem* 251: 2905-10, 25 May 76 (Eng) *DL/77FEB570

ADIPOSE TISSUE (metabolism); ANIMAL EXPERIMENTS (analysis); CALCIUM (pharmacodynamics); CELL MEMBRANE (metabolism); CYTOCHALASIN B (metabolism); DEOXYGLUCOSE (metabolism); DINITROFLUOROBENZENE (pharmacodynamics); DIPYRIDAMOLE (pharmacodynamics); FEMALE; GLUCOSE

Diabetes Literature—Author Index

Dadrich E

(metabolism); LIPIDS (metabolism); MAGNESIUM (pharmacodynamics); PHLORHIZIN (pharmacodynamics); PROTEIN BINDING; RATS; SUCROSE (pharmacodynamics); TEMPERATURE; TRITIUM; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); 2-HYDROXY-5-NITROBENZYL BROMIDE (pharmacodynamics).

Dadrich E

[TRANSPORT OF FREE FATTY ACIDS AND ENERGY METABOLISM DURING HYPONATREMIA AND HYPERCALORIC FORMULA DIETS] Schonborn J, Dadrich E, Rabast U, Kasper H *Verh Dtsch Ges Inn Med* 81: 1402-5, 1975 (Ger) *DL/77FEB685

Dallacasa P

[PROGNOSIS OF CHILDREN OF MOTHERS WITH DIABETES MELLITUS] Salvioi GP, Dallacasa P, Bottigioni F, Guerreschi E *Minerva Pediatr* 28: 212-6, 11 Feb 76 (Ita) DL/77FEB320

Daniel WL

GENETICS OF MURINE LIVER AND KIDNEY ARYL SULFATASE B. Daniel WL *Genetics* 82: 477-91, 25 Mar 76 (Eng) *DL/77FEB559
ANIMAL EXPERIMENTS (analysis); ARYL SULFATASES (antagonists & inhibitors, metabolism); ELECTROPHORESIS; FEMALE; GENES, STRUCTURAL; HEAT; KIDNEY (enzymology); LIVER (enzymology); MALE; MICE, INBRED STRAINS; PHILIPPINES (physiology); SPECIES SPECIFICITY; SULFATASES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Daniels JB

ADRENERGIC NEUROHUMORS IN THE HEART OF HAMSTERS WITH HEREDITARY MYOPATHY DURING CARDIAC HYPERTROPHY AND FAILURE. Angelakos ET, Carballo LC, Daniels JB, King MP, Bajusz E *Recent Adv Stud Cardiac Struct Metab* 1: 262-78, 1972 (Eng) *DL/77FEB641

Danilova MI

[AMOUNT OF ACETONE AND ETHYL ALCOHOL IN THE BLOOD AND URINE OF PATIENTS WITH DIABETES MELLITUS AND ISCHEMIC HEART DISEASE] Kamysheva EP, Sorochkina RM, Kapatsinskaya LK, Romanova LN, Danilova MI *Sov Med* 147-8, Apr 76 (Rus) DL/77FEB403

Danon A

RAPID ONSET OF ESSENTIAL FATTY ACID DEFICIENCY IN THE NEWBORN. Friedman Z, Danon A, Stahlman MT, Oates JA *Pediatrics* 58: 640-9, Nov 76 (Eng) DL/77FEB337

Darnaud C

[CARDIOVASCULAR COMPLICATIONS OF DIABETES] Darnaud C, Darnaud J *Rev Prat* 26: 3111-7, 11 Oct 76 (Fre) DL/77FEB383
ADULT; CARDIOVASCULAR DISEASES (etiology); DIABETES MELLITUS (complications); ENGLISH ABSTRACT; HUMAN; MIDDLE AGE.

Darnaud J

[CARDIOVASCULAR COMPLICATIONS OF DIABETES] Darnaud C, Darnaud J *Rev Prat* 26: 3111-7, 11 Oct 76 (Fre) DL/77FEB383

Dauchel J

[XENOTRANSPLANTATION OF FETAL ENDOCRINE PANCREATIC TISSUE. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 690-9, 1976 (Fre) DL/77FEB61

Daughaday WH

REGULATION OF SOMATOMEDIN GENERATION. PP. 169-77. Daughaday WH, Phillips LS, Herington AC In: *Peptide A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381* 1975. (Eng) DL/77FEB188
ANIMAL; BIOLOGICAL TRANSPORT; CARTILAGE (drug effects, metabolism); FASTING; HYPOPHYSECTOMY; INSULIN (pharmacodynamics); LIVER (drug effects, metabolism); MALE; MONOGRAPH (mortality); PERFUSION; RATS; SOMATOMEDIN (biosynthesis); SOMATOTROPIN (pharmacodynamics); SULFATES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

DAulerio M

INFLUENCE OF POLARIZING INFUSIONS ON ANTIARRHYTHMIC EFFECTS OF BETA-BLOCKERS. Rossi P, Araldi D, Cernigliaro C, DAulerio M, Carcano G *Ital Cardiol* 6: 620-7, 1976 (Eng) DL/77FEB126

Davidson MB

TRIACETYLATED INSULIN: BIOLOGICAL ACTIVITY AND RESISTANCE TO DEGRADATION. Kaplan SA, Morris JW, Davidson MB, Gerschenson LE, Scott M *Metabolism* 25: 1209-16, Nov 76 (Eng) DL/77FEB261

Davies JA

GROWTH HORMONE, CYCLIC NUCLEOTIDES AND THE RAPID CONTROL OF TRANSLATION IN HEART MUSCLE. Mowbray J, Davies JA, Bates DJ, Jones CJ *Biochem J* 152: 583-92, Dec 75 (Eng) *DL/77FEB712

Davis SL

INFLUENCE OF CHRONIC THYROTROPIN-RELEASING HORMONE INJECTIONS ON SECRETION OF PROLACTIN, THYROTROPIN AND GROWTH HORMONE AND ON GROWTH RATE IN WETHER LAMBS. Davis SL, Hill DM, Ohlson DL, Jacobs JA *J Anim Sci* 42: 1244-50, May 76 (Eng) *DL/77FEB566

ANIMAL EXPERIMENTS (analysis); BODY WEIGHT; MALE; NITROGEN (metabolism); PROLACTIN (blood); SHEEP (growth & development, physiology); SOMATOTROPIN (blood); THYROTROPIN RELEASING HORMONE (pharmacodynamics); THYROTROPIN (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Dawson RMC

INSULIN RELEASE AND PHOSPHATE ION EFFLUX FROM RAT PANCREATIC ISLETS INDUCED BY L-LEUCINE AND ITS NON-METABOLIZABLE ANALOGUE, 2-AMINO-BICYCLO[2.2.1]HEPTANE-2-CARBOXYLIC ACID. Freinkel N, Younsi CE, Dawson RMC *Proc Natl Acad Sci USA* 73: 3403-7, Oct 76 (Eng) DL/77FEB358

de Deckere EA

INFLUENCES OF DIETARY FATS ON THE CORONARY FLOW AND OXYGEN CONSUMPTION OF THE ISOLATED RAT HEART. de Deckere EA, ten Hoor F *Recent Adv Stud Cardiac Struct Metab* 7: 475-83, 1975 (Eng) *DL/77FEB676

ANIMAL EXPERIMENTS (analysis); CORONARY CIRCULATION; DIETARY FATS; GLUCOSE (metabolism, pharmacodynamics); MALE; MYOCARDIUM (metabolism); OXYGEN CONSUMPTION (drug effects); PERFUSION; RATS.

de Favelukes SS

INFLUENCE OF THE HYPOPHYSIS ON MITOCHONDRIAL PROTEIN SYNTHESIS. de Favelukes SS, de Tarlovsky MS, Bedetti CD,

Stoppani AO *Acta Physiol Lat Am* 25: 107-11, 1975 (Eng) *DL/77FEB688

ANIMAL EXPERIMENTS (analysis); COMPARATIVE STUDY; HYPOPHYSECTOMY; MALE; MITOCHONDRIA, LIVER (metabolism); MITOCHONDRIA, MUSCLE (metabolism); PROTEINS (biosynthesis); RATS; SOMATOTROPIN (secretion); THYROXINE (metabolism).

De Gasquet P

METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E *Diabete Metab* 1: 77-85, Jun 75 (Eng) DL/77FEB95

de Haas GH

COMPARATIVE STUDIES OF LIPASE AND PHOSPHOLIPASE A2 ACTING ON SUBSTRATE MONOLAYERS. Verger R, Rietsch J, Van Dam-Mieras MC, de Haas GH *J Biol Chem* 251: 3128-33, 25 May 76 (Eng) *DL/77FEB574

de Haen C

THE EVOLUTIONARY ORIGIN OF PROINSULIN. AMINO ACID SEQUENCE HOMOLOGY WITH THE TRYPSIN-RELATED SERINE PROTEASES DETECTED AND EVALUATED BY NEW STATISTICAL METHODS. de Haen C, Swanson E, Teller DC *J Mol Biol* 106: 639-61, 25 Sep 76 (Eng) DL/77FEB215

AMINO ACID SEQUENCE; ANIMAL; COMPARATIVE STUDY; COMPUTERS; DIGITAL; EVOLUTION; INSULIN; PEPTIDE FRAGMENTS (analysis); PEPTIDE HYDROLASES; PROINSULIN; PROTEIN CONFORMATION; SERINE; SPECIES SPECIFICITY; TRYPSIN; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

De Hertogh R

PLASMA CONCENTRATIONS OF UNCONJUGATED ESTRONE, ESTRADIOL-17BETA AND ESTRADIOL, AND HCS THROUGHOUT PREGNANCY IN DIABETICS AND GESTATIONAL DIABETICS. De Hertogh R, Thomas K, Hoet JJ, Vanderheyden I *Diabetologia* 12: 455-61, Oct 76 (Eng) DL/77FEB114
ADULT; ESTRADIOL (blood); ESTRADIOL (blood); ESTROGENS (blood); ESTRONE (blood); FEMALE; HUMAN; PLACENTAL LACTOGEN (blood); PREGNANCY IN DIABETES (blood); PREGNANCY TRIMESTER, FIRST; PREGNANCY TRIMESTER, SECOND; PREGNANCY TRIMESTER, THIRD; PREGNANCY.

de La Tour J

[PANCREATIC SECRETION IN RATS. A COMPARATIVE STUDY OF BASAL AND STIMULATED SECRETIONS IN ACUTE AND CHRONIC FISTULA CONDITIONS (AUTHORS TRANSL.)]. Chariot J, Roze C, de La Tour J, Souchard M, Vaillat C, Debray C *Pathol Biol (Paris)* 24: 457-61, Sep 76 (Fre) DL/77FEB336

de los Arcos JG

INHIBITION OF THE GLUCOSE INDUCED INSULIN RELEASE BY SOMATOSTATIN IN THE ISOLATED PERFUSED RAT PANCREAS. ACTION OF CYCLIC AMP, GLUCAGON AND GLIBENCLAMIDE. Osorio J, Campillo JE, de los Arcos JG, Pages I, Rodriguez E, Marasco M, Melani F *Rev Esp Fisiol* 32: 211-6, Sep 76 (Eng) DL/77FEB372

De Los Monteros Mena AE

[RELATIONSHIPS BETWEEN THYROTROPIN, GROWTH HORMONE AND INSULIN IN HYPOTHYROIDISM] Vergara Rodriguez J, De Los Monteros Mena AE, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 1021-31, Sep-Oct 76 (Spa) DL/77FEB1

[INTRAVENOUS AND ORAL GLUCOSE: PRODUCTION OF INSULIN AND GROWTH HORMONE IN THE NEWBORN INFANT] Dorantes Alvarez L, De Los Monteros Mena AE, Matus Sueira A, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 979-92, Sep-Oct 76 (Spa) DL/77FEB3

De Meyts P

CELL SURFACE RECEPTORS FOR INSULIN AND HUMAN GROWTH HORMONE. EFFECT OF MICROTUBULE AND MICROFILAMENT MODIFIERS. Van Obberghen E, De Meyts P, Roth J *J Biol Chem* 251: 6844-51, 10 Nov 76 (Eng) DL/77FEB161

De Nicola AF

THE INFLUENCE OF STREPTOZOTOCIN DIABETES ON ADRENAL FUNCTION IN MALE RATS. De Nicola AF, Fridman O, Del Castillo EJ, Foglia VG *Horm Metab Res* 8: 388-92, Sep 76 (Eng) DL/77FEB145
ADRENAL GLANDS (metabolism, physiopathology); ANIMAL; BLOOD SUGAR (metabolism); BODY WEIGHT; CORTICOSTERONE (blood); DIABETES MELLITUS (chemically induced, physiopathology); KETONE BODIES (blood); MALE; ORGAN WEIGHT; PROGESTERONE (metabolism); RATS; STREPTOZOTOCIN; TIME FACTORS.

de Tarlovsky MS

INFLUENCE OF THE HYPOPHYSIS ON MITOCHONDRIAL PROTEIN SYNTHESIS. de Favellus SS, de Tarlovsky MS, Bedetti CD, Stoppani AO *Acta Physiol Lat Am* 25: 107-11, 1975 (Eng) *DL/77FEB688

Deacon SP

BLOOD SUGAR AND BETA-BLOCKERS [LETTER]. Deacon SP *Br Med J* 2: 1012, 23 Oct 76 (Eng) DL/77FEB31
ADRENERGIC BETA RECEPTOR BLOCKADERS (adverse effects); COMPARATIVE STUDY; HUMAN; HYPOGLYCEMIA (chemically induced).

Dean RE

HYPERALIMENTATION IN THE MANAGEMENT OF CHRONIC INFLAMMATORY INTESTINAL DISEASE. Dean RE, Campos MM, Barrett B *Dis Colon Rectum* 19: 601-4, Oct 76 (Eng) DL/77FEB62
ADOLESCENCE; ADULT; BODY WEIGHT; CHRONIC DISEASE; COLECTOMY; COLITIS, ULCERATIVE (surgery, therapy); ENTERITIS, REGIONAL (surgery, therapy); FEMALE; GLYCOSURIA (etiology); HUMAN; INTESTINAL FISTULA (therapy); MALE; MEGACOLON, TOXIC (therapy); MIDDLE AGE; MONILIASIS (etiology); PARENTERAL FEEDING (adverse effects); PARENTERAL HYPERALIMENTATION (adverse effects); PREOPERATIVE CARE; RECTUM (surgery); SEPTICEMIA (etiology).

Debray C

[PANCREATIC SECRETION IN RATS. A COMPARATIVE STUDY OF BASAL AND STIMULATED SECRETIONS IN ACUTE AND CHRONIC FISTULA CONDITIONS (AUTHORS TRANSL.)]. Chariot J, Roze C, de La Tour J, Souchard M, Vaille C, Debray C *Pathol Biol (Paris)* 24: 457-61, Sep 76 (Fre) DL/77FEB336

Debray G

[DRUG-INDUCED HYPOGLYCEMIA IN DIABETIC PATIENTS] Gay G, Debray G *Nouv Presse Med* 5: 2156-8, 9 Oct 76 (Fre) DL/77FEB344

Decker K

STUDIES ON UREA SYNTHESIS, INSULIN DEGRADATION AND PHAGOCYTOSIS BY ISOLATED RAT KUPFFER CELLS. Wagle SR, Hofmann F, Decker K *Biochem Biophys Res Commun* 72: 448-55, 20 SEP 76 (Eng) DL/77FEB509

Dehez-Delhay M

[PROBLEMS IN GLYCOREGULATION AND SENESCENCE] Gommers A, Jeanjean M, Dehez-Delhay M *Probl Actuels Endocrinol Nutr serie 17*: 193-207, 1973 (Fre) DL/77FEB357

Del Castillo EJ

THE INFLUENCE OF STREPTOZOTOCIN DIABETES ON ADRENAL FUNCTION IN MALE RATS. De Nicola AF, Fridman O, Del Castillo EJ, Foglia VG *Horm Metab Res* 8: 388-92, Sep 76 (Eng) DL/77FEB145

Delia JA

PLASMA RENIN ACTIVITY AND HYPERTENSION IN DIABETES MELLITUS. Christlieb AR, Kaldany A, Delia JA *Diabetes* 25: 969-74, Oct 76 (Eng) DL/77FEB105

DeMaeyer EM

PROTEIN-ENERGY MALNUTRITION. DeMaeyer EM *WHO Monogr Ser* 23-54, 1976 (Eng) [46] DL/77FEB430
BLOOD PROTEINS (metabolism); CARBOHYDRATES (metabolism); CHILD NUTRITION; CHILD; CHILD, PRESCHOOL; DEFICIENCY DISEASES (complications); DIARRHEA (therapy); HEART DISEASES (complications); HUMAN; HYPOGLYCEMIA (complications); HYPOTHERMIA (complications); INFANT; INFANT, NEWBORN; INFECTION (complications, therapy); KWASHIORKOR; PROTEIN-CALORIE MALNUTRITION (metabolism, occurrence, therapy); REVIEW.

Demange J

[ROLE OF PERHEXILINE MALEATE AND BETA BLOCKING AGENTS IN THE DEVELOPMENT OF SEVERE HYPOGLYCEMIA (LETTER)] Sudre Y, Becq-Giraudon B, Pouget-Abadie JF, Demange J, Boutaud PH *Nouv Presse Med* 5: 1999, 25 Sep 76 (Fre) DL/77FEB341

Demarne Y

[EFFECT OF UNSATURATED DIETARY FATS ON GROWTH AND LIPOGENESIS IN RATS] Demarne Y, Toure M, Flanz J, Lecourtier MJ *Nutr Metab* 19: 28-40, 1975 (Fre) *DL/77FEB615
ANIMAL EXPERIMENTS (analysis); BODY COMPOSITION (drug effects); DIETARY FATS; ENGLISH ABSTRACT; GROWTH (drug effects); LINOLEIC ACIDS (pharmacodynamics); LIPIDS (metabolism); MALE; OLEIC ACIDS (pharmacodynamics); RATS.

DeMeyts P

HORMONAL REGULATION OF THE AFFINITY AND CONCENTRATION OF HORMONE RECEPTORS IN TARGET CELLS. DeMeyts P, Kahn CR, Roth J, Bar RS *Metabolism* 25: 1365-70, Nov 76 (Eng) DL/77FEB275
ANIMAL; HORMONES (metabolism); HUMAN; INSULIN (metabolism); KINETICS; LIVER (metabolism); LYMPHOCYTES (metabolism); MICE, OBES; MONKEYS; MONOCYTES (metabolism); OBESITY (metabolism); RECEPTORS, HORMONE (metabolism); RECEPTORS, INSULIN (metabolism); SOMATOTROPIN (metabolism).

Dervran A

TIME COURSE OF GLUCOSE-INDUCED INCREASE IN PLASMA INSULIN IN THE RAT FOETUS IN UTERO. Dervran A, Girard JR *J*

Endocrinol 70: 519-20, Sep 76 (Eng) DL/77FEB199
ANIMAL; BLOOD SUGAR (analysis); FEMALE; FETUS (metabolism); GLUCOSE (administration & dosage, metabolism); INFUSIONS, PARENTERAL; INSULIN (blood); PREGNANCY; RATS.

Deschodt-Lanckman M

EFFECTS OF SOMATOSTATIN ON PANCREATIC EXOCRINE FUNCTION. INTERACTION WITH SECRETIN. Deschodt-Lanckman M, Robberecht P, Pector JC, Christophe J *Arch Int Physiol Biochim* 83: 960-1, Dec 75 (Eng) *DL/77FEB705

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); AMYLASE (metabolism); ANIMAL EXPERIMENTS (analysis); LIPASE (metabolism); PANCREAS (drug effects, metabolism); RATS; SECRETIN (metabolism); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Deslex P

QUANTITATIVE EVALUATION OF SOMATOTROPIC CELLS (SC) IN THE ADENOHYPOPHYSIS OF NORMAL AND DIABETIC MALE CHINESE HAMSTERS. Deslex P, Rossi GL *Diabetologia* 12: 489-93, Oct 76 (Eng) DL/77FEB117
ANIMAL; CELL COUNT; DIABETES MELLITUS (pathology); DIABETES MELLITUS, JUVENILE (pathology, physiopathology); DISEASE MODELS, ANIMAL, HAMSTERS; MALE; PITUITARY GLAND (cytology); PITUITARY GLAND, ANTERIOR (cytology); PITUITARY GLAND, ANTERIOR (pathology); SOMATOTROPIN (secretion).

Desrosiers P

METHYLMALONIC ACIDURIA AND HYPOGLYCEMIA [LETTER]. Garnica A, Desrosiers P, Sargent T *N Engl J Med* 295: 1136-7, 11 Nov 76 (Eng) DL/77FEB323

Deutsch S

PLASMA LEVELS OF FRACTIONATED ESTROGENS AND PITUITARY HORMONES IN ENDOMETRIAL CARCINOMA. Benjamin F, Deutsch S *Am J Obstet Gynecol* 126: 638-47, 15 Nov 76 (Eng) DL/77FEB470

Devis G

INSULIN RELEASE AND THE MOVEMENTS OF CALCIUM IN PANCREATIC ISLETS. PP. 211-26. Malaisse WJ, Herchuelz A, Levy J, Somers G, Devis G *In: Carafoli E, et al., ed. Calcium transport in contraction and secretion. Amsterdam, North-Holland, 1975. QV 276 I61c 1975. (Eng) DL/77FEB179*

CALCIUM-ANTAGONISTS AND ISLET FUNCTION. VI. EFFECTS OF BARIUM. Somers G, Devis G, van Obberghen E, Malaisse WJ *Diabetologia* 12: 21-8, 3 Sep 76 (Eng) DL/77FEB339

Dhalla NS

ENERGY STATE AND ULTRASTRUCTURE OF THE SUBSTRATE-DEPLETED HEART. Dhalla NS, Yates JC, Olson RE *Recent Adv Stud Cardiac Struct Metab* 1: 81-94, 1972 (Eng) *DL/77FEB654

ADENINE NUCLEOTIDES (metabolism); ANIMAL EXPERIMENTS (analysis); ENERGY TRANSFER, GLYCOGEN (metabolism); HEART RATE; IN VITRO; MICROSCOPY, ELECTRON; MYOCARDIAL CONTRACTION; MYOCARDIUM (metabolism, ultrastructure); PERFUSION; PHOSPHOCREATINE (metabolism); RATS; TRIGLYCERIDES (metabolism).

Dickerson JW

Dickerson JW

EFFECT OF DIETARY SUBSTITUTION OF SUCROSE AND ITS CONSTITUENT MONOSACCHARIDES ON THE ACTIVITY OF AROMATIC HYDROXYLASE AND THE LEVEL OF CYTOCHROME P-450 IN HEPATIC MICROSOMES OF GROWING RATS. Basu TK, Dickerson JW, Parke DV *Nutr Metab* 18: 302-9, 1975 (Eng) *DL/77FEB614

Diebold J

[MACRO AND MICRO DIABETIC ANGIOPATHIES. ANATOMO-PATHOLOGIC ASPECTS] Diebold J, Camilleri JP *Rev Prat* 26: 3075-82, 11 Oct 76 (Fre) DL/77FEB380
ARTERIES (pathology); ARTERIOSCLEROSIS (pathology); ARTERITIS (pathology); CALCINOSIS (pathology); CORONARY DISEASE (pathology); DIABETIC ANGIOPATHIES (pathology); HUMAN; LEG (blood supply); SYNDROME.

Dieterle C

[MUSCLE METABOLISM OF GLUCOSE, LACTATE, FREE FATTY ACIDS, AND GLYCEROL AT REST AND DURING ELECTRICALLY STIMULATED EXERCISE IN THE PERFUSED RAT HIND LIMB (AUTHORS TRANSL)] Dieterle C, Gartner R, Dieterle P *Res Exp Med (Berl)* 168: 23-33, 22 Jul 76 (Ger) DL/77FEB378

ANIMAL; ELECTRIC STIMULATION; ENGLISH ABSTRACT; EXERTION; FATTY ACIDS, NONESTERIFIED (metabolism); GLUCOSE (metabolism); GLYCERIN (metabolism); GLYCOGEN (metabolism); HINDLIMB, IN VITRO; INSULIN (pharmacodynamics); LACTATES (biosynthesis); LIPIDS (metabolism); MALE; MUSCLES (metabolism); PERFUSION; RATS.

Dieterle P

[MUSCLE METABOLISM OF GLUCOSE, LACTATE, FREE FATTY ACIDS, AND GLYCEROL AT REST AND DURING ELECTRICALLY STIMULATED EXERCISE IN THE PERFUSED RAT HIND LIMB (AUTHORS TRANSL)] Dieterle C, Gartner R, Dieterle P *Res Exp Med (Berl)* 168: 23-33, 22 Jul 76 (Ger) DL/77FEB378

Dietz GW Jr

THE HEXOSE PHOSPHATE TRANSPORT SYSTEM OF ESCHERICHIA COLI Dietz GW Jr *Adv Enzymol* 44: 237-59, 1976 (Eng) *DL/77FEB692

BACTERIA (metabolism); BINDING SITES; BIOLOGICAL TRANSPORT; ACTIVE; CELL MEMBRANE (metabolism); CHEMOTAXIS; CHROMOSOME MAPPING; ENERGY TRANSFER; ESCHERICHIA COLI (metabolism); GLUCOSEPHOSPHATES (metabolism); HEXOSEPHOSPHATES (metabolism); KINETICS; LINKAGE (GENETICS); MODELS; BIOLOGICAL; MUTATION; PROTEIN BINDING; SPECIES SPECIFICITY; STRUCTURE-ACTIVITY RELATIONSHIP.

Dilling LA

RELATIONSHIPS BETWEEN MATERNAL GLUCOSE INTOLERANCE AND NEONATAL BLOOD GLUCOSE. Haworth JC, Dilling LA *J Pediatr* 89: 810-3, Nov 76 (Eng) DL/77FEB207

Djian A

[3 INCIDENTAL OBSERVATIONS OF PACHYDERMO-PERIOSTOSIS] Djian A, Seboun J, Beasley N *Rev Rhum Mal Osteoarthr* 43: 528-32, Jul-Sep 76 (Fre) DL/77FEB389
ADULT; AGE FACTORS; CASE REPORT; DIABETES MELLITUS (etiology); HUMAN; MALE; OSTEOARTHROPATHY, PRIMARY HYPERTROPHIC (complications, radiography).

Diabetes Literature—Author Index

Dobbs R

EFFECTS OF NEUROTENSIN AND SUBSTANCE P ON INSULIN AND GLUCAGON RELEASE BY THE PERFUSED DOG PANCREAS [PROCEEDINGS]. Patton G, Brown M, Dobbs R, Vale W, Unger RH *Metabolism* 25: 1465, Nov 76 (Eng) DL/77FEB300

GASTRIC GLUCAGON SECRETION. Blazquez E, Munoz-Barragan L, Patton GS, Dobbs R, Unger RH *Metabolism* 25: 1475-6, Nov 76 (Eng) DL/77FEB303

STIMULATION OF PANCREATIC IMMUNOREACTIVE SOMATOSTATIN (IRS) RELEASE BY GLUCAGON [PROCEEDINGS]. Patton GS, Dobbs R, Orci L, Vale W, Unger RH *Metabolism* 25: 1499, Nov 76 (Eng) DL/77FEB308

Dobbs RE

GASTRIC A-CELL FUNCTION IN NORMAL DOGS. Munoz-Barragan L, Blazquez E, Patton GS, Dobbs RE, Unger RH *Am J Physiol* 231: 1057-61, Oct 76 (Eng) DL/77FEB474

Dockerill S

THE RELATION OF STRUCTURE TO STORAGE AND RECEPTOR BINDING OF GLUCAGON. Blundell TL, Dockerill S, Sasaki K, Tickle LJ, Wood SP *Metabolism* 25: 1331-6, Nov 76 (Eng) DL/77FEB268

Doi K

COMPARISON OF NON-SCREEN TECHNIQUES (MEDICAL VS. INDUSTRIAL FILM) FOR FINE-DETAIL SKELETAL RADIOGRAPHY. Genant HK, Doi K, Mall JC *Invest Radiol* 11: 486-500, SEP-OCT 76 (Eng) DL/77FEB151

THE ROLE OF GLUCAGON-INSULIN INTERACTIONS IN CONTROL OF GLUCOSE TURNOVER AND ITS SIGNIFICANCE IN DIABETES. Vranic M, Ross G, Doi K, Lickley L *Metabolism* 25: 1375-80, Nov 76 (Eng) DL/77FEB277

EXTRAPANCREATIC GLUCAGON IN THE DOG. Vranic M, Engerman R, Doi K, Morita S, Yip CC *Metabolism* 25: 1469-73, Nov 76 (Eng) DL/77FEB302

Doll E

MYOCARDIAL SUBSTRATE UPTAKE IN MEN DURING EXERCISE UNDER HYPoxic CONDITIONS. Keul J, Doll E *Recent Adv Stud Cardiac Struct Metab* 7: 261-6, 1975 (Eng) *DL/77FEB667

Dollery CT

DETERIORATION IN GLUCOSE TOLERANCE FOLLOWING PROLONGED DIURETIC TREATMENT FOR HYPERTENSION [PROCEEDINGS]. Lewis PJ, Dollery CT, Kohner EM, Petrie A Jr *J Clin Pharmacol* 2: 375p, Aug 75 (Eng) DL/77FEB5

Dominguez MC

THE EFFECT OF GLUCOSE, INSULIN AND ADRENALINE ON GLYCEROL METABOLISM IN VITRO IN RAT ADIPOSE TISSUE. Dominguez MC, Herrera E *Biochem J* 158: 183-90, 15 Aug 76 (Eng) DL/77FEB503
ADIPOSE TISSUE (metabolism); ANIMAL; CARBON DIOXIDE (biosynthesis); EPINEPHRINE (pharmacodynamics); FATTY ACIDS (biosynthesis); GLUCOSE (pharmacodynamics); GLYCERIDES (biosynthesis); GLYCERIN (metabolism); INSULIN (pharmacodynamics); MALE; RATS.

Donald RA

STUDIES WITH THE AUTOTRANSPLANTED OVINE PANCREAS: GLUCAGON AND INSULIN SECRETION. Arcus AC, Ellis MJ, Kirk RD, Beaven DW, Donald RA, Hart DS, Holland GW, Redekopp C *Aust J Biol Sci* 29: 223-36, Jul 76 (Eng) DL/77FEB496

Donovan JW

CANCER MORTALITY AND SACCHARIN CONSUMPTION IN DIABETICS. Armstrong B, Lea AJ, Adelstein AM, Donovan JW, White GC, Ruttle S Jr *J Prev Soc Med* 30: 151-7, Sep 76 (Eng) DL/77FEB19

Dorantes Alvarez L

[INTRAVENOUS AND ORAL GLUCOSE PRODUCTION OF INSULIN AND GROWTH HORMONE IN THE NEWBORN INFANT] Dorantes Alvarez L, De Los Monteros Mena AE, Matus Seucira A, Chavarria Boncqui C *Bol Med Hosp Infant Mex* 33: 979-92, Sep-Oct 76 (Esp) DL/77FEB3

ADMINISTRATION, ORAL; COMPARATIVE STUDY; ENGLISH ABSTRACT; FEMALE; GLUCOSE (administration & dosage, pharmacodynamics); HUMAN; INFANT; NEWBORN; INJECTIONS, INTRAVENOUS; INSULIN (biosynthesis); MALE; PANCREAS (drug effects, metabolism); PITUITARY GLAND (drug effects, metabolism); SOMATOTROPIN (biosynthesis); STIMULATION, CHEMICAL.

Dorchy H

[COMPARISON OF VARIOUS SEMI-QUANTITATIVE TESTS FOR DETERMINATION OF URINARY GLUCOSE IN DIABETICS (AUTHORS TRANSL)] Dorchy H, Loeb H *Diabete Metab* 1: 87-9, Jun 75 (Fre) DL/77FEB96

COMPARATIVE STUDY; DIABETES MELLITUS (urine); ENGLISH ABSTRACT; FALSE POSITIVE REACTIONS; GLYCOSURIA (diagnosis); HUMAN; POLAROGRAPHY; REAGENT STRIPS.

Dorf G

[THERAPEUTIC REQUIREMENTS OF NON-INSULIN DEPENDENT DIABETES AND ITS VARIANTS] Dorf G, Bour H *Sem Hop Ther* 52: 121-3, Feb 76 (Fre) DL/77FEB400
ADULT; AGED; DIABETES MELLITUS (diet therapy, drug therapy, therapy); FEMALE; HUMAN; MIDDLE AGE; PREGNANCY.

Dorner G

[EARLY POSTNATAL OVERFEEDING AS AN ETIOPATHOGENETIC FACTOR IN ADULT OBESITY] Dorner G, Hagen N, Wittbuhn W *Acta Biol Med Ger* 35: 799-803, 1976 (Ger) DL/77FEB453

ADULT; BIRTH WEIGHT; BODY WEIGHT; BREAST FEEDING; DIABETES MELLITUS (etiology); ENGLISH ABSTRACT; HUMAN; INFANT NUTRITION; INFANT, NEWBORN; MALE; OBESITY (etiology).

Dorner M

[PARODONTOPATHY REVEALING INSULIN-DEPENDANT DIABETES (LETTER)] Pinget M, Dorner M, Brocard JM, Comte F, Farge R, Roth JJ *Nouv Presse Med* 5: 1995, 25 Sep 76 (Fre) DL/77FEB340

Dousset N

[EFFECT OF GAMMA RAYS FROM 60CO ON THE IN VITRO INCORPORATION OF PALMITIC ACID IN LIPIDS OF RAT LIVER MICROSOMES] Magdalou J, Dousset N, Douste-Blazy L *Int J Radiat Biol* 29: 27-35, Jan 76 (Fre) *DL/77FEB565

Doust-Blazy L

[EFFECT OF GAMMA RAYS FROM 60CO ON THE IN VITRO INCORPORATION OF PALMITIC ACID IN LIPIDS OF RAT LIVER MICROSOMES] Magdalou J, Dousset N, Douste-Blazy L *Int J Radiat Biol* 29: 27-35, Jan 76 (Fre) *DL/77FEB565

Dowdall MJ

THE INCORPORATION OF RADIOACTIVE FATTY ACIDS AND OF RADIOACTIVE

DERIVATIVES OF GLUCOSE INTO THE PHOSPHOLIPIDS OF SUBSYNAPTOSOMAL FRACTIONS OF CEREBRAL CORTEX. Baker R, Dowdall MJ, Whittaker VP *Biochem J* 154: 65-75, 15 Jan 76 (Eng) *DL/77FEB715

Drazancic A

INSULIN TREATMENT OF GESTATIONAL DIABETICS. Drazancic A, Kuvacic I *Acta Med Jugosl* 30: 341-53, 1976 (Eng) DL/77FEB459
BIRTH WEIGHT; FEMALE; HUMAN; INFANT, NEWBORN; INSULIN (therapeutic use); PREGNANCY IN DIABETES (drug therapy); PREGNANCY.

Drury MI

VOVULUS OF THE SMALL BOWEL IN A DIABETIC PATIENT [LETTER]. Fitzgerald GA, Colgan B, Drury MI, O'Connell FX *Br Med J* 2: 945, 16 Oct 76 (Eng) DL/77FEB29

Dubiel J

[POLYCARDIOGRAPHIC EVALUATION OF LEFT VENTRICULAR CONTRACTION FOLLOWING GLUCAGON ADMINISTRATION TO PATIENTS WITH CHRONIC CIRCULATORY FAILURE] Szczeklik J, Dubiel J, Pyzik Z *Pol Tyg Lek* 31: 1709-12, 4 Oct 76 (Pol) DL/77FEB347

Duc G

[PREVENTIVE MEASURES AGAINST INFANT MORTALITY AND CEREBRAL DISEASES ASSOCIATED WITH PREMATURITY] Duc G *Gynaekol Rundsch* 15 suppl 1: 34-8, 1975 (Fre) *DL/77FEB562
BIRTH WEIGHT; BRAIN DISEASES (prevention & control); FEMALE; GESTATIONAL AGE; HUMAN; INFANT MORTALITY; INFANT, NEWBORN; INFANT, PREMATURE; INFANT, PREMATURE, DISEASES (prevention & control); PREGNANCY.

Duguid JR

PARTIAL PURIFICATION AND CHARACTERIZATION OF THE MRNA FOR RAT PREPROINSULIN. Duguid JR, Steiner DF, Chick WL *Proc Natl Acad Sci USA* 73: 3539-43, Oct 76 (Eng) DL/77FEB359
ANIMAL; CENTRIFUGATION, DENSITY GRADIENT; CHROMATOGRAPHY, AFFINITY; ELECTROPHORESIS, POLYACRYLAMIDE GEL; ISLET CELL TUMOR (analysis); MOLECULAR WEIGHT; NEOPLASMS, EXPERIMENTAL (analysis); PROINSULIN; PROTEIN PRECURSORS; RATS; RNA, MESSENGER (isolation & purification); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .

Dunaev VG

[EFFECT OF ADRENALINE, NORADRENALINE, DOPAMINE, DOPA AND PHENYLALANINE ON LIPID PEROXIDATION IN LIVER MITOCHONDRIA MEMBRANES] Sergeev PV, Seifulla RD, Dunaev VG, Rudnev Iu N *Biull Eksp Biol Med* 80: 25-8, Dec 75 (Rus) *DL/77FEB526

Dunbar JC

ELEVATED GUT GLUCAGON-LIKE IMMUNOREACTIVE MATERIAL IN HUMAN AND EXPERIMENTAL DIABETES AND ITS SUPPRESSION BY SOMATOSTATIN. Wider MD, Matsuyama T, Dunbar JC, Foa PP *Metabolism* 25: 1487-9, Nov 76 (Eng) DL/77FEB306

Duplay H

[GANGLIOCYTIC PARAGANGLIOMA OF THE DUODENUM. ONE CASE WITH ELECTRON MICROSCOPE STUDY (AUTHORS TRANSL.)] Kermarec J, Duplay H, Lesbros F *Arch Anat Kyst Pathol* 24: 261-8, 1976 (Fre) DL/77FEB492

Dupre J

INHIBITION OF ACTIONS OF GLUCAGON IN ADIPOCYTES BY GASTRIC INHIBITORY POLYPEPTIDE. Dupre J, Greenidge N, McDonald TJ, Ross SA, Rubinstein D *Metabolism* 25: 1197-9, Nov 76 (Eng) DL/77FEB259
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (biosynthesis); ADIPOSE TISSUE (drug effects, metabolism); ANIMAL; EPIDIDYMS; GASTRIC INHIBITORY POLYPEPTIDE (pharmacodynamics); GASTROINTESTINAL HORMONES (pharmacodynamics); GLUCAGON (antagonists & inhibitors, metabolism); LIPIDS (metabolism); RATS; RECEPTORS, HORMONE (drug effects); THEOPHYLLINE (pharmacodynamics).

Dusek J

STUDIES ON THE MECHANISM OF INCREASED MYOCARDIAL RESISTANCE. Rona G, Dusek J *Recent Adv Stud Cardiac Struct Metab* 1: 422-9, 1972 (Eng) *DL/77FEB643

Dutton A

AN EXPERIMENT ELIMINATING THE ROTATING CARRIER MECHANISM FOR THE ACTIVE TRANSPORT OF CA ION IN SARCOPLASMIC RETICULUM MEMBRANES. Dutton A, Rees ED, Singer SJ *Proc Natl Acad Sci USA* 73: 1532-6, May 76 (Eng) *DL/77FEB624
ADENOSINE TRIPHOSPHATASE (metabolism); ANIMAL EXPERIMENTS (analysis); ANTIGEN-ANTIBODY REACTIONS; BIOLOGICAL TRANSPORT, ACTIVE; CALCIUM (metabolism); CHEMISTRY; MODELS, BIOLOGICAL; MUSCLE PROTEINS; NITROBENZENES (immunology); RABBITS; SARCOPLASMIC RETICULUM (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .

Dvorakova I

[EARLY STAGES OF DIABETES MELLITUS] Dvorakova I *Vnitř Lek* 22: 910-8, Sep 76 (Cze) DL/77FEB426
DIABETES MELLITUS (diagnosis); DIAGNOSIS, DIFFERENTIAL; ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; MALE; PREDIABETIC STATE (diagnosis); PREGNANCY; TIME FACTORS.

Dyer A

EPIDEMIOLOGIC FINDINGS ON THE RELATIONSHIP OF TIME OF DAY AND TIME SINCE LAST MEAL TO GLUCOSE TOLERANCE. Mayer KH, Stamler J, Dyer A, Freinkel N, Stamler R, Berkson DM, Farber B *Diabetes* 25: 936-43, Oct 76 (Eng) DL/77FEB100

Dyer H

INSULIN LOSS IN PARENTERAL NUTRITION SYSTEMS. Oh TE, Dyer H, Wall BP, Hall RA, Jellet LB *Anaesth Intensive Care* 4: 342-6, Nov 76 (Eng) DL/77FEB484

Dzhaliabova MI

[REGULATION OF MICROSOMAL ENZYME ACTIVITY BY PHOSPHOLIPIDS IN VIVO] Burlakova EB, Dzhaliabova MI, Molochkina EM *Dokl Akad Nauk SSSR* 227: 991-4, 1976 (Rus) *DL/77FEB547

Eaton RP

MODULATION OF FATTY ACID METABOLISM BY GLUCAGON IN MAN. IV. EFFECTS OF A PHYSIOLOGIC HORMONE INFUSION IN NORMAL MAN. Schade DS, Eaton RP *Diabetes* 25: 978-83, Oct 76 (Eng) DL/77FEB107

GLUCAGON AND LIPOPROTEINS. Eaton RP *Metabolism* 25: 1415-7, Nov 76 (Eng) [9] DL/77FEB286
ANIMAL; BLOOD SUGAR (metabolism); FATTY ACIDS, NONESTERIFIED (blood);

GLUCAGON (pharmacodynamics); HYPERLIPIDEMIA (blood, metabolism); INSULIN (blood); LIPOPROTEINS (metabolism); LIVER (drug effects, metabolism); RATS; REVIEW; TRIGLYCERIDES (blood).

Eder R

[GROWTH HORMONE DETERMINATIONS IN CHILDREN WITH RHEUMATOID ARTHRITIS AND STILL'S SYNDROME (PROCEEDINGS)] Butenandt O, Eder R, Clados-Kelch A Z *Rheumatol* 35 suppl 4: suppl 47-53, 1976 (Ger) DL/77FEB445

MEAN 24-HOUR GROWTH HORMONE AND TESTOSTERONE CONCENTRATIONS IN RELATION TO PUBERTAL GROWTH SPURT IN BOYS WITH NORMAL OR DELAYED PUBERTY. Butenandt O, Eder R, Wohlfarth K, Bidlingmaier F, Knorr D *Eur J Pediatr* 122: 85-92, 4 May 76 (Eng) *DL/77FEB551

Edwards AV

ADRENAL AND PANCREATIC ENDOCRINE RESPONSES TO HYPOXIA IN THE CONSCIOUS CALF. Bloom SR, Edwards AV, Hardy RN, Silver M J *Physiol (Lond)* 261: 271-83, Oct 76 (Eng) DL/77FEB212

Efendic S

POTENTIATION OF GLUCOSE-INDUCED INSULIN RELEASE BY GLUCOSE IN THE ISOLATED PANCREAS OF FED AND FASTED RATS. Efendic S, Cerasi E, Luft R, Gladnikoff G *Diabetes* 25: 949-54, Oct 76 (Eng) DL/77FEB102

ANIMAL; DOSE-RESPONSE RELATIONSHIP, DRUG; GLUCOSE (pharmacodynamics); INSULIN (secretion); PANCREAS (drug effects, secretion); RATS; SECRETORY RATE (drug effects); STARVATION (physiopathology); TIME FACTORS.

SOMATOSTATIN, A HORMONE OF THE ALPHA I-CELLS OF THE PANCREATIC ISLETS AND ITS INFLUENCE ON THE SECRETION OF INSULIN AND GLUCAGON. PP. 216-21. Efendic S, Hokfelt T, Luft R In *Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB190*

ANIMAL; ARGININE (pharmacodynamics); FLUORESCENT ANTIBODY TECHNIC; GLUCAGON (secretion); IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, metabolism, ultrastructure); MONOGRAPH (mortality); PERFUSION; RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics, physiology).

Eggstein M

[BEHAVIOR OF KETONE BODIES, BLOOD LIPIDS AND OF VARIOUS LABORATORY-CHEMISTRY PARAMETERS DURING ISO-CALORIC HIGH-CARBOHYDRATE AND HIGH-FAT REDUCING DIETS] Schubert WR, Vogel B, Schmullung RM, Eggstein M *Verh Dtsch Ges Inn Med* 81: 1397-1400, 1975 (Ger) *DL/77FEB684

Ehrensing RH

ENDOCRINE AND EXTRA-ENDOCRINE STUDIES OF HYPOTHALAMIC HORMONES IN MAN. PP. 196-206. Kastin AJ, Schally AV, Ehrensing RH, Barbeau A In *U Luderis K, Cooper KE, ed. Recent studies of hypothalamic function. Basel, Karger, 1974. W3 312 165r 1973. (Eng) [44] *DL/77FEB590*

Eibl M

[HL-A SYSTEM AND DIABETES MELLITUS] Scherthaner G, Ludwig H, Eibl M, Erd W, Pacher M, Mayr WR *Schweiz Med Wochenschr* 106: 514-7, 10 Apr 76 (Ger) DL/77FEB394

Diabetes Literature—Author Index

Elie R

Elie R

[BLOOD SUGAR AND BLOOD INSULIN AFTER A RAW OR COOKED MEAL IN CONTROL AND DIABETIC SUBJECTS] Havrankova J, Pesant P, Elie R, Matte R *Union Med Can* 105: 1147-51, Aug 76 (Fre) DL/77FEB421

Eliot RS

TRANSMURAL GRADIENTS IN THE ISCHEMIC DOG LEFT VENTRICLE: METABOLISM OF ENDOGENOUS TRIGLYCERIDES AND GLYCOGEN. Crass MF 3d, Holsinger JW Jr, Shipp JC, Eliot RS, Pieper GM *Recent Adv Stud Cardiac Struct Metab* 7: 225-30, 1975 (Eng) *DL/77FEB662

El-Allawy RM

THE EXCRETION OF INSULIN IN URINE. El-Allawy RM, Sonne O, Gliemann J, Orskov H, Johansen K *Diabetologia* 12: 523-6, Oct 76 (Eng) DL/77FEB122

ADIPOSE TISSUE (drug effects); ADULT; AGED; ANTIGEN-ANTIBODY REACTIONS; ANTIGENS; BIOLOGICAL ASSAY; COMPARATIVE STUDY; DIABETES MELLITUS (urine); HUMAN; INSULIN (immunology, urine); MIDDLE AGE; NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY; RADIOIMMUNOASSAY; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Ellenberg M

THE EVOLVING PICTURE OF DIABETES. Ellenberg M *Compr Ther* 2: 9-15, Nov 76 (Eng) DL/77FEB55

ANIMAL; ARTIFICIAL ORGANS; ATTITUDE; DIABETES MELLITUS (physiopathology, surgery, therapy); HUMAN; INSULIN (therapeutic use); PANCREAS (transplantation); SOMATOTROPIN RELEASE INHIBITING HORMONE (therapeutic use); TRANSPLANTATION, HOMOLOGOUS.

Ellert MS

EFFECT OF CHRONIC ADMINISTRATION OF NICOTINE ON METABOLIC RESPONSES AND INTESTINAL GLUCOSE TRANSPORT. PP. 127-36. Bhagat B, van Beaumont W, Ellert MS *Ino Singh JM, Lal H, ed. Drug addiction. Vol 40 New aspects of analytical and clinical toxicology. New York, Stratton, 1974. W3 IN917KC 1973d. (Eng) [15] *DL/77FEB593*

Ellis MJ

STUDIES WITH THE AUTOTRANSPLANTED OVINE PANCREAS: GLUCAGON AND INSULIN SECRETION. Arcus AC, Ellis MJ, Kirk RD, Beaven DW, Donald RA, Hart DS, Holland GW, Redekopp C *Aust J Biol Sci* 29: 223-36, Jul 76 (Eng) DL/77FEB496

Ellis S

STUDIES ON THE NATURE OF PLASMA GROWTH HORMONE. PP. 75-83. Ellis S, Grindland RE, Reilly TJ, Yang SH *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB191*

ANIMAL; BIOLOGICAL ASSAY; BODY WEIGHT; HUMAN; INSULIN (pharmacodynamics); MONOGRAPH (mortality); RADIOIMMUNOASSAY (methods); RATS; SOMATOTROPIN (blood, pharmacodynamics); TIBIA (drug effects).

Eloy R

[XENOTRANSPLANTATION OF FETAL ENDOCRINE PANCREATIC TISSUE. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 690-9, 1976 (Fre) DL/77FEB61

Emmanouel DS

HETEROGENEITY OF PLASMA GLUCAGON IN MAN. Jaspán JB, Kuku SF, Locker JD, Huen A, Emmanouel DS, Katz AI, Rubenstein AH *Metabolism* 25: 1397-401, Nov 76 (Eng) DL/77FEB282

Endres A

[POSSIBLE SOURCES OF ERROR IN FALSE EXAMINATION RESULTS DURING THE USE OF BIOPHAN-G-TEST-STRIPS] Heller H, Endres A *Z Aerzt Fortbild (Jena)* 70: 946-9, 1 Sep 76 (Ger) DL/77FEB438

Engerman R

EXTRAPANCREATIC GLUCAGON IN THE DOG. Vranic M, Engerman R, Doi K, Morita S, Yip CC *Metabolism* 25: 1469-73, Nov 76 (Eng) DL/77FEB302

Engleson G

[EXPERIENCES WITH MONOCOMPONENT (MC) INSULIN IN THE TREATMENT OF JUVENILE DIABETES] Aronson S, Engleson G *Lakartidningen* 73: 3982-4, 10 Nov 76 (Swe) DL/77FEB243

Ensinnck JW

DOMINANT INHERITANCE OF LARGE MOLECULAR WEIGHT SPECIES OF GLUCAGON. Ensinnck JW, Palmer JP *Metabolism* 25: 1409-11, Nov 76 (Eng) DL/77FEB285

ADOLESCENCE; ADULT; AGED; BLOOD SUGAR; FEMALE; GENETICS; HUMAN; GLUCAGON (blood, immunology); HUMAN; INSULIN (blood, immunology); MALE; MIDDLE AGE; MOLECULAR WEIGHT; PEDIGREE.

NEUROHUMORAL REGULATION OF THE PANCREATIC ISLET A AND B CELLS. Porte D Jr, Smith PH, Ensinnck JW *Metabolism* 25: 1453-6, Nov 76 (Eng) [21] DL/77FEB296

IMMUNOREACTIVE GLUCAGON RESPONSES TO ARGININE IN THREE PANCREATOTOMIZED HUMANS. Palmer JP, Werner PL, Benson JW, Ensinnck JW *Metabolism* 25: 1483-5, Nov 76 (Eng) DL/77FEB305

Entam ML

ASSOCIATION OF GLYCOGENOLYSIS WITH CARDIAC SARCOPLASMIC RETICULUM. Entam ML, Kanike K, Goldstein MA, Nelson TE, Bornet EP, Futch TW, Schwartz A *J Biol Chem* 251: 3140-6, 25 May 76 (Eng) *DL/77FEB575

ADENOSINE MONOPHOSPHATE (pharmacodynamics); ADENOSINE TRIPHOSPHATASE (metabolism); ADENOSINE TRIPHOSPHATE (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); CALCIUM (metabolism); DOGS; EGTA (pharmacodynamics); GLYCOGEN PHOSPHORYLASE (metabolism); GLYCOGEN (metabolism); MYOCARDIUM (enzymology); PHILIPPINES (physiology); PHOSPHORYLASE KINASE (metabolism); PROTEIN KINASE (antagonists & inhibitors); SARCOPLASMIC RETICULUM (enzymology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Epand RM

BIOLOGIC ACTIVITY AND CONFORMATIONAL PROPERTIES OF GLUCAGON AND GLUCAGON ANALOGS. Epand RM, Cote TE, Hoa DH, Rosselin G, Schreier S *Metabolism* 25: 1317-8, Nov 76 (Eng) DL/77FEB264

ADENYL CYCLASE (metabolism); ANIMAL; CELL MEMBRANE (metabolism); GLUCAGON (analogs & derivatives, metabolism, pharmacodynamics); LIVER (drug effects, enzymology); PROTEIN CONFORMATION; RADIOLOGAND ASSAY; RATS; RECEPTORS; HORMONE (metabolism).

Eppele A

NEW TYPES OF ISLET CELLS IN A CYCLOSTOME, PETROMYZON MARINUS L. Brinn JE, Eppele A *Cell Tissue Res* 171: 317-29, 26 Aug 76 (Eng) DL/77FEB39

Erd W

[HL-A SYSTEM AND DIABETES MELLITUS] Schernthaner G, Ludwig H, Eibl M, Erd W, Pacher M, Mayr WR *Schweiz Med Wochenschr* 106: 514-7, 10 Apr 76 (Ger) DL/77FEB394

[COMPARATIVE QUANTITATIVE RAPID DETERMINATION OF BLOOD SUGAR BY MEANS OF VARIOUS REFLECTOMETER-SYSTEMS] Schernthaner G, Erd W, Sinzinger H, Penner E *Wien Med Wochenschr* 126: 571-4, 1 Oct 76 (Ger) DL/77FEB435

Erdos EG

STUDIES ON MEMBRANE-BOUND RENIN IN THE MOUSE AND RAT. Wilson CM, Ward PE, Erdos EG, Gecse A *Circ Res* 38: 95-8, Jun 76 (Eng) *DL/77FEB541

Esber HJ

CIRCADIAN PATTERN OF PROLACTIN AND GROWTH HORMONE LEVELS IN FEMALE RATS OF TWO STRAINS. Esber HJ, Kuo E, Bogden AE *Lab Anim Sci* 26: 186-9, Apr 76 (Eng) *DL/77FEB604

ANIMAL EXPERIMENTS (analysis); CIRCADIAN RHYTHM; COMPARATIVE STUDY; ESTRUS; FEMALE; LIGHT; PROESTRUS; PROLACTIN (blood); RATS (blood); SOMATOTROPIN (blood); SPECIES SPECIFICITY; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Escallier A

[LOW THYROTROPIC HORMONE: A NEW ENTITY] Berthezene F, Paffroy JC, Escallier A, Bizollon C, Mornex R *Nouv Presse Med* 5: 2138-40, 9 Oct 76 (Fre) DL/77FEB343

Esposito G

EFFECT OF ETHYL ACETATE ON THE TRANSPORT OF SODIUM AND GLUCOSE IN THE HAMSTER SMALL INTESTINE IN VITRO. Esposito G, Faelli A, Capraro V *Biochim Biophys Acta* 426: 489-98, 19 Mar 76 (Eng) *DL/77FEB520

ACETIC ACIDS (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT; BIOLOGICAL TRANSPORT, ACTIVE; BODY WATER (metabolism); GLUCOSE (metabolism); HAMSTERS; IN VITRO; INTESTINAL ABSORPTION (drug effects); INTESTINAL MUCOSA (drug effects, metabolism); JEJUNUM (drug effects, metabolism); MALE; POTASSIUM (metabolism); SODIUM (metabolism).

Etienne J

[SUBCELLULAR LOCALIZATION OF RAT ADIPOCYTE LIPOPROTEIN LIPASE] Wolf C, Vanhove A, Breton M, Etienne J, Berezat G, Polonovski J *C R Soc Biol (Paris)* 169: 1145-9, 1975 (Fre) *DL/77FEB528

Ettinger PO

MYOCARDIAL ION AND LIPID CHANGES DURING ISCHEMIA AND CATECHOLAMINE INDUCED NECROSIS: RELATION TO REGIONAL BLOOD FLOW. Regan TJ, Markov A, Khan MI, Jesrani MU, Oldewurtel HA, Ettinger PO *Recent Adv Stud Cardiac Struct Metab* 1: 656-64, 1972 (Eng) *DL/77FEB649

Evans C

EARLY CHANGES IN ACUTE CARDIAC OVERLOAD: STUDIES ON ADENYL CYCLASE ACTIVITY, CYCLIC 35-AMP, AND MYOSIN SYNTHESIS. Schreiber SS, Klein I, Oratz M, Evans C, Gueyikian I, Rothschild MA *Recent Adv Stud Cardiac Struct Metab* 1: 44-58, 1972 (Eng) *DL/77FEB645

Diabetes Literature—Author Index

Ferrari A

Evans ME

CATECHOLAMINES AND MYOCARDIAL INFARCTION. Young RC, Thomas M, Evans ME, Opie LH *Recent Adv Stud Cardiac Struct Metab* 1:163-8, 1972 (Eng) *DL/77FEB637

Ewing DJ

PLASMA RENIN ACTIVITY IN DIABETIC AUTONOMIC NEUROPATHY. Campbell IW, Ewing DJ, Anderson JL, Thompson JH, Horn DB, Clarke BF *Eur J Clin Invest* 6: 381-5, 10 Sep 76 (Eng) DL/77FEB73

Exton JH

STUDIES ON THE ROLE OF CAMP-DEPENDENT PROTEIN KINASE IN THE ACTIONS OF GLUCAGON AND CATECHOLAMINES ON LIVER GLYCOGEN METABOLISM. Cherrington AD, Exton JH *Metabolism* 25: 1351-4, Nov 76 (Eng) DL/77FEB272

A RAPID METHOD FOR THE DETERMINATION OF GLYCOGEN CONTENT AND RADIOACTIVITY IN SMALL QUANTITIES OF TISSUE OR ISOLATED HEPATOCYTES. Chan TM, Exton JH *Anal Biochem* 71: 96-105, Mar 76 (Eng) *DL/77FEB701

Faelli A

EFFECT OF ETHYL ACETATE ON THE TRANSPORT OF SODIUM AND GLUCOSE IN THE HAMSTER SMALL INTESTINE IN VITRO. Esposito G, Faelli A, Capraro V *Biochim Biophys Acta* 426: 489-98, 19 Mar 76 (Eng) *DL/77FEB520

Fahrer E

[DIABETES MELLITUS, HEMOSTATIC FUNCTION, AND DIABETIC ANGIOPATHY] Zoller H, Gutmann W, Fahrer E, Gross W *Med Welt* 27: 1742-3, 10 Sep 76 (Ger) DL/77FEB258

Falk RE

KETONIC DIET IN THE MANAGEMENT OF PYRUVATE DEHYDROGENASE DEFICIENCY. Falk RE, Cederbaum SD, Blass JP, Gibson GE, Kark RA, Carrel RE *Pediatrics* 58: 713-21, Nov 76 (Eng) DL/77FEB338

ALANINE (blood); CARBOHYDRATE METABOLISM, INBORN ERRORS (blood, diet therapy, familial & genetic); CASE REPORT; CHILD; CITRATES (blood); DIETARY CARBOHYDRATES (adverse effects); DIETARY FATS (administration & dosage); FIBROBLASTS (enzymology); GLUCOSE TOLERANCE TEST; HUMAN; HYDROXYBUTYRATES (blood); INFANT; KETONES (administration & dosage); KETOSIS (blood); LACTATES (blood); MALE; NEUROMUSCULAR DISEASES (blood, familial & genetic); PYRUVATE DEHYDROGENASE COMPLEX (deficiency); PYRUVATES (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Fang VS

STUDIES ON CYCLIC GMP-DEPENDENT PROTEIN KINASE PROPERTIES BY BLUE DEXTRAN-SEPHAROSE CHROMATOGRAPHY. Kobayashi R, Fang VS *Biochem Biophys Res Commun* 69: 1080-7, 19 Apr 76 (Eng) *DL/77FEB716

Farber B

EPIDEMIOLOGIC FINDINGS ON THE RELATIONSHIP OF TIME OF DAY AND TIME SINCE LAST MEAL TO GLUCOSE TOLERANCE. Mayer KH, Stamler J, Dyer A, Freinkel N, Stamler R, Berkson DM, Farber B *Diabetes* 25: 936-43, Oct 76 (Eng) DL/77FEB100

Farge R

[PARODONTOPATHY REVEALING INSULIN-DEPENDANT DIABETES (LETTER)] Pinget M, Dornier M, Brocard JM, Comte F, Farge R, Roth JJ *Nouv Presse Med* 5: 1993, 25 Sep 76 (Fre) DL/77FEB340

Farias RN

INSULIN DECREASES BACTERIAL MEMBRANE FLUIDITY. IS IT A GENERAL EVENT IN ITS ACTION? Moreno H, Farias RN *Biochem Biophys Res Commun* 72: 74-80, 7 Sep 76 (Eng) DL/77FEB508

Farina JM

EVIDENCE FOR A HYPOPHYSEAL FACTOR THAT STIMULATES INSULIN SECRETION BY THE PANCREAS (INSULOTROPHINE) Chieri RA, Basabe JC, Farina JM *Horm Metab Res* 8: 329-32, Sep 76 (Eng) DL/77FEB137

Farman AG

ORAL CANDIDA, DEBILITATING DISEASE AND ATROPHIC LESIONS OF THE TONGUE. Farman AG, Nutt G J *Biol Buccale* 4: 203-26, SEP 76 (Eng) DL/77FEB158

ADOLESCENCE; ADULT; CANDIDA (isolation & purification); DIABETES MELLITUS (complications); FEMALE; HUMAN; MALE; MIDDLE AGE; MONILIASIS, ORAL (complications, pathology); TONGUE DISEASES (complications, microbiology, pathology).

ATROPHIC LESIONS OF THE TONGUE: A PREVALENCE STUDY AMONG 175 DIABETIC PATIENTS. Farman AG J *Oral Pathol* 5: 255-64, Sep 76 (Eng) DL/77FEB206

ADOLESCENCE; ADULT; AGE FACTORS; AGED; ATROPHY; CANDIDA (isolation & purification); DIABETES MELLITUS (complications, pathology); FEMALE; GLOSSITIS (pathology); HUMAN; MALE; MIDDLE AGE; SEX FACTORS; TONGUE DISEASES (complications, microbiology, pathology); TONGUE (pathology); TONGUE, FISSURED (complications); TONGUE, FISSURED (pathology).

Faure C

[THE SMALL LEFT COLON SYNDROME. 3 CASES] Neuenschwander S, Montagne JP, Boudou A, Bouron D, Mougenot JF, Gruner M, Faure C *Nouv Presse Med* 6: 2311-4, 23 Oct 76 (Fre) DL/77FEB346

Fawcett CP

CONTROL OF GONADOTROPIN AND PROLACTIN SECRETION BY HYPOTHALAMIC RELEASING AND INHIBITING HORMONES. PP. 80-9. McCann SM, Cooper K, Harms PG, Libertun C, Negro-Vilar A, Ojeda SR, Orias R, Moss RL, Fawcett CP, Krulich L, Gilon C, Amoss M, Rivier C, Ling N, Burgus R, Guillemin R *In: Lederis K, Cooper KE, ed. Recent studies of hypothalamic function. Basel, Karger, 1974. WL 312 165r 1973. (Eng) *DL/77FEB589*

Fedak SA

HOLOCATALYTIC STATE OF ADENYLATE CYCLASE IN TURKEY ERYTHROCYTE MEMBRANES: FORMATION WITH GUANYLYLMIDODIPHOSPHATE PLUS ISOPROTERENOL WITHOUT EFFECT ON AFFINITY OF BETA-RECEPTOR. Spiegel AM, Brown EM, Fedak SA, Woodard CJ, Aurbach GD J *Cyclic Nucleotide Res* 2: 47-56, 1976 (Eng) *DL/77FEB583

Fedelesova M

INFLUENCE OF ASSISTED CIRCULATION ON CARDIAC METABOLISM. Ziegelhoffer A, Siska K, Holec V, Fedelesova M, Frollo I *Recent Adv Stud Cardiac Struct Metab* 1: 484-91, 1972 (Eng) *DL/77FEB646

Federico RD

[GLUCOSE TOLERANCE TESTS WITH ORAL GLUCOSE CHALLENGES OF 50 AND 100 GRAMS (AUTHORS TRANSL)] Federico RD, Jablonka S, Mello EH, Reis LC *Rev Bras Pesqui Med Biol* 9: 213-6, Sep 76 (Por) DL/77FEB371

DIABETES MELLITUS (diagnosis); ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST (methods); GLUCOSE (administration & dosage); HUMAN; MALE; MIDDLE AGE.

Federlin K

ISLET TRANSPLANTATION IN EXPERIMENTAL DIABETES OF THE RAT. V. REGRESSION OF GLOMERULAR LESIONS IN DIABETIC RATS AFTER INTRAPORTAL TRANSPLANTATION OF ISOGENEIC ISLETS. PRELIMINARY RESULTS. Federlin K, Bretzel RG, Schmidtchen U *Horm Metab Res* 8: 404-6, Sep 76 (Eng) DL/77FEB148

ANIMAL; DIABETES MELLITUS (chemically induced, pathology); ISLANDS OF LANGERHANS (transplantation); KIDNEY GLOMERULUS (pathology); MALE; RATS; STREPTOZOTOCIN; TIME FACTORS; TRANSPLANTATION, ISOGENEIC.

Feingold J

[GENETICS OF DIABETES MELLITUS (AUTHORS TRANSL)] Feingold J *Diabetes Metab* 1: 123-9, Jun 76 (Fre) [34] DL/77FEB97

DIABETES MELLITUS (familial & genetic); ENGLISH ABSTRACT; FEMALE; GENES; HUMAN; MALE; MODELS, BIOLOGICAL; NUTRITION; REVIEW.

Felig P

HYPERINSULINEMIA AND HYPERGLUCAGONEMIA FOLLOWING PANCREATIC ISLET TRANSPLANTATION IN DIABETIC RATS. Weber CJ, Hardy MA, Lerner RL, Felig P, Reemtsma K *Diabetes* 25: 944-8, Oct 76 (Eng) DL/77FEB101

EVANESCENCE EFFECTS OF HYPO- AND HYPERGLUCAGONEMIA ON BLOOD GLUCOSE HOMEOSTASIS. Sherwin R, Wahren J, Felig P *Metabolism* 25: 1381-3, Nov 76 (Eng) DL/77FEB278

SOMATOSTATIN AND DIABETES: SUPPRESSION OF GLUCOSE ABSORPTION RATHER THAN STIMULATION OF GLUCOSE DISPOSAL. Felig P, Wahren J *Metabolism* 25: 1509-10, Nov 76 (Eng) DL/77FEB311

BLOOD SUGAR (metabolism); DIABETES MELLITUS, JUVENILE (blood); GLUCOSE TOLERANCE TEST; HUMAN; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); XYLOSE (blood).

Fenselau A

3-OXO ACID COENZYME A-TRANSFERASE IN NORMAL AND DIABETIC RAT MUSCLE. Fenselau A, Wallis K *Biochem J* 158: 509-12, 15 Aug 76 (Eng) DL/77FEB507

ACETOACETATES (metabolism); ANIMAL; DIABETES MELLITUS (chemically induced, enzymology); FEMALE; ISOELECTRIC FOCUSING; KINETICS; MITOCHONDRIA, MUSCLE (metabolism); MUSCLES (enzymology); RATS; STARVATION; STREPTOZOTOCIN; SULFOTRANSFERASES (metabolism); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Ferrannini E

METHYLGUANIDINE AND INSULIN RESPONSE IN PATIENTS ON MAINTENANCE HAEMODIALYSIS [LETTER]. Ferrannini E, Navalesi R, Pilo A, Morelli E *Lancet* 2: 1028-9, 6 Nov 76 (Eng) DL/77FEB252

BLOOD SUGAR (analysis); GLUCOSE TOLERANCE TEST; GUANIDINES (blood); HEMODIALYSIS; HUMAN; INSULIN (blood); METHYLGUANIDINE (blood); UREMIA (blood, therapy).

Ferrari A

ALTERATION OF DRUG METABOLISM IN GILBERTS SYNDROME. Carulli N, Ponz de

Filaretov AA

Leon M, Mauro E, Manenti F, Ferrari A *Gut* 17: 581-7, Aug 76 (Eng) DL/77FEB132

Filaretov AA

[FUNCTIONAL ORGANIZATION OF THE HYPOTHALAMUS IN REGULATION OF THE HYPOPHYSAL-ADRENOCORTICAL SYSTEM] Filaretov AA, Vasilevskaia LV *Dokl Akad Nauk SSSR* 227: 1018-20, 1976 (Rus) *DL/77FEB546

ANIMAL EXPERIMENTS (analysis); CORTICOTROPIN (secretion); HYDROCORTISONE (pharmacodynamics); HYPOTHALAMUS (physiology); HYPOTHALAMUS (drug effects); HYPOTHALAMUS, ANTERIOR (drug effects, physiology); HYPOTHALAMUS, MEDIAL (drug effects, physiology); HYPOTHALAMUS, POSTERIOR (drug effects, physiology); IMMOBILIZATION; PITUITARY-ADRENAL SYSTEM (drug effects, physiology); RABBITS; STRESS, PSYCHOLOGICAL (physiology).

Filatova AM

[ROLE OF THE THROMBOCYTES IN CHANGES IN THE HEMOSTATIC SYSTEM IN DIABETES MELLITUS] Petrov MN, Gavrisheva NA, Filatova AM, Tsikarishvili NV, Vashkinel VK *Klin Med (Mosk)* 54: 119-22, Jul 76 (Rus) DL/77FEB229

Fischer JE

INSULIN, GLUCAGON, AMINOACID IMBALANCE, AND HEPATIC ENCEPHALOPATHY. Soeters PB, Fischer JE *Lancet* 2: 880-2, 23 Oct 76 (Eng) DL/77FEB245

Fischer R

MECHANISM OF INHIBITION OF CHOLESTEROL UPTAKE BY THE ARTERIAL WALL. Bing RJ, Sarma JSM, Fischer R, Ikeda S *Adv Exp Med Biol* 67: 419-435, 1976 (Eng) *DL/77FEB697

Fisher DA

ROLE OF GLUCAGON IN PERINATAL GLUCOSE HOMEOSTASIS. Sperling MA, Grajwer LA, Leake R, Fisher DA *Metabolism* 25: 1385-6, Nov 76 (Eng) DL/77FEB279

Fitzgerald GA

VOVULUS OF THE SMALL BOWEL IN A DIABETIC PATIENT [LETTER]. Fitzgerald GA, Colgan B, Drury MI, O'Connell FX *Br Med J* 2: 945, 16 Oct 76 (Eng) DL/77FEB29
CASE REPORT; DIABETES MELLITUS (complications); HUMAN; INTESTINAL OBSTRUCTION (etiology); JEJUNUM; MALE; MIDDLE AGE.

Fizel A

MYOCARDIAL METABOLIC CHANGES IN CARDIAC HYPERTROPHY AND HEART FAILURE. Fizelova A, Fizel A *Recent Adv Stud Cardiac Struct Metab* 1: 200-12, 1972 (Eng) *DL/77FEB639

PARTICIPATION OF CATECHOLAMINES AND CORTICAL HORMONES IN THE MYOCARDIAL METABOLIC ADAPTATION TO MECHANICAL OVERLOAD OF THE HEART. Fizel A, Fizelova A *Recent Adv Stud Cardiac Struct Metab* 1: 814-27, 1972 (Eng) *DL/77FEB655

ADRENAL ECTOMY; ANIMAL EXPERIMENTS (analysis); CORTICOSTERONE (metabolism); CORTICOTROPIN (pharmacodynamics); DISEASE MODELS, ANIMAL; EPINEPHRINE (metabolism, pharmacodynamics); HEART DISEASES (metabolism, radiography); HEART (drug effects); HYDROCORTISONE (pharmacodynamics); MITOCHONDRIA, MUSCLE (metabolism); MUSCLE PROTEINS (metabolism); MYOCARDIUM (metabolism); NOREPINEPHRINE (metabolism); ORGAN WEIGHT; RABBITS; SARCOPLASMIC RETICULUM (metabolism).

Fizelova A

MYOCARDIAL METABOLIC CHANGES IN CARDIAC HYPERTROPHY AND HEART FAILURE. Fizelova A, Fizel A *Recent Adv Stud Cardiac Struct Metab* 1: 200-12, 1972 (Eng) *DL/77FEB639

ADENINE NUCLEOTIDES (metabolism); ANIMAL EXPERIMENTS (analysis); COLLAGEN (metabolism); DISEASE MODELS, ANIMAL; DNA (metabolism); GLYCOGEN (metabolism); HEART ENLARGEMENT (metabolism); HEART FAILURE, CONGESTIVE (metabolism); MITOCHONDRIA, MUSCLE (metabolism); MUSCLE PROTEINS (metabolism); MYOCARDIUM (metabolism); MYOFIBRILS (metabolism); ORGAN WEIGHT; RABBITS; RNA (metabolism); SARCOPLASMIC RETICULUM (metabolism); TIME FACTORS.

PARTICIPATION OF CATECHOLAMINES AND CORTICAL HORMONES IN THE MYOCARDIAL METABOLIC ADAPTATION TO MECHANICAL OVERLOAD OF THE HEART. Fizel A, Fizelova A *Recent Adv Stud Cardiac Struct Metab* 1: 814-27, 1972 (Eng) *DL/77FEB655

Flanzy J

[EFFECT OF UNSATURATED DIETARY FATS ON GROWTH AND LIPOGENESIS IN RATS] Demarne Y, Toure M, Flanzy J, Lecourtier MJ *Nutr Metab* 19: 28-40, 1975 (Fre) *DL/77FEB615

Flemma R

PREOPERATIVE RISK FACTORS AND AORTA-CORONARY BYPASS GRAFT PATENCY. Blumlein SL, Anderson AJ, Barboriak JJ, Rimm AA, Walker J, Flemma R *J Thorac Cardiovasc Surg* 72: 778-83, Nov 76 (Eng) DL/77FEB234

Fletcher T

EXTRACELLULAR CALCIUM AND ADRENERGIC AND CHOLINERGIC EFFECTS ON ISLET BETA-CELL FUNCTION. Burr IM, Slonim AE, Burke V, Fletcher T *Am J Physiol* 231: 1246-9, Oct 76 (Eng) DL/77FEB476

Foa PP

ELEVATED GUT GLUCAGON-LIKE IMMUNOREACTIVE MATERIAL IN HUMAN AND EXPERIMENTAL DIABETES AND ITS SUPPRESSION BY SOMATOSTATIN. Wider MD, Matsuyama T, Dunbar JC, Foa PP *Metabolism* 25: 1487-9, Nov 76 (Eng) DL/77FEB306

Foglia VG

THE INFLUENCE OF STREPTOZOTOCIN DIABETES ON ADRENAL FUNCTION IN MALE RATS. De Nicola AF, Fridman O, Del Castillo EJ, Foglia VG *Horm Metab Res* 8: 388-92, Sep 76 (Eng) DL/77FEB145

Folts JD

CONTROL OF ENERGY PRODUCTION IN MYOCARDIAL ISCHEMIA. Shrago E, Shug AL, Sul H, Bittar N, Folts JD *Circ Res* 38: i75-9, May 76 (Eng) *DL/77FEB540

INHIBITED ADENINE NUCLEOTIDE TRANSLOCATION IN MITOCHONDRIA ISOLATED FROM ISCHEMIC MYOCARDIUM. Bittar N, Shug AL, Koke JR, Folts JD, Shrago ES *Recent Adv Stud Cardiac Struct Metab* 7: 137-43, 1975 (Eng) *DL/77FEB658

Foltzer C

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltzer C, Leclercq-Meyer V, Mialhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77FEB86

ANIMAL; BLOOD SUGAR (metabolism); CORTICOSTERONE (pharmacodynamics); DUCKS; FASTING; GLUCAGON (blood, immunology); GLUCOSE (pharmacodynamics);

HYPOPHYSCTOMY; ISLANDS OF LANGERHANS (drug effects, secretion); MALE; PITUITARY GLAND (physiology); PITUITARY GLAND, ANTERIOR (physiology); PITUITARY-ADRENAL SYSTEM (physiology); SOMATOTROPIN (pharmacodynamics).

Foos RY

REGIONAL ISCHEMIC INFARCTS OF THE RETINA. Foos RY *Albrecht von Graefes Arch Klin Ophthalmol* 200: 183-94, 1976 (Eng) DL/77FEB481

ADOLESCENCE; ADULT; AGED; ARTERIOSCLEROSIS (pathology); DIABETIC RETINOPATHY (pathology); FEMALE; HUMAN; INFARCTION (pathology); ISCHEMIA (pathology); MALE; MIDDLE AGE; RETINA (pathology); RETINAL DISEASES (pathology); RETINAL VESSELS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Ford C

COORDINATION OF CITRIC ACID CYCLE ACTIVITY WITH ELECTRON TRANSPORT FLUX. Williamson JR, Ford C, Illingworth J, Safer B *Circ Res* 38: i39-51, May 76 (Eng) *DL/77FEB538

Forgacs S

DIABETES MELLITUS AND OSTEOPOROSIS. Forgacs S, Rosinger A, Vertes L *Endokrinologie* 67: 343-50, 1976 (Eng) DL/77FEB69
ADULT; AGE FACTORS; AGED; DIABETES MELLITUS (complications, drug therapy); FEMALE; HUMAN; INSULIN (therapeutic use); MALE; MIDDLE AGE; OSTEOPOROSIS (etiology); SEX FACTORS; SPINAL DISEASES (etiology).

[GALL-BLADDER CHANGES IN DIABETICS (AUTHORS TRANSL)] Forgacs S *Radiol Diagn (Berl)* 17: 51-5, 1976 (Ger) DL/77FEB368

ADULT; CHOLELITHIASIS (etiology); DIABETES MELLITUS (complications); DIABETIC NEUROPATHIES (complications); ENGLISH ABSTRACT; FEMALE; GALLBLADDER DISEASES (etiology); HUMAN; MALE.

Forn J

REGULATION BY LIPOLYTIC AND ANTILIPOLYTIC COMPOUNDS OF THE PHOSPHORYLATION OF SPECIFIC PROTEINS IN ISOLATED INTACT FAT CELLS. Forn J, Greengard P *Arch Biochem Biophys* 178: 721-33, Oct 76 (Eng) DL/77FEB488

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (analogs & derivatives, metabolism, pharmacodynamics); ADIPOSE TISSUE (drug effects, metabolism); ANIMAL; CORTICOTROPIN (pharmacodynamics); ELECTROPHORESIS, POLYACRYLAMIDE GEL; INSULIN (pharmacodynamics); KINETICS; LIPID MOBILIZATION (drug effects); MALE; MOLECULAR WEIGHT; NOREPINEPHRINE (pharmacodynamics); PHOSPHOPROTEINS (biosynthesis); PROPRANOLOL (pharmacodynamics); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.); XANTHINES (pharmacodynamics).

Forrest JA

EFFECT OF THE HISTAMINE H2-RECEPTOR ANTAGONIST, CIMETIDINE, ON GASTRIC SECRETION AND SERUM GASTRIN DURING INSULIN INFUSION IN MAN. Carter DC, Forrest JA, Logan RA, Ansell I, Lidgard G, Heading RC, Shearman DJ *Scand J Gastroenterol* 11: 565-70, 1976 (Eng) DL/77FEB393

Forsham PH

EFFECTS OF ACUTE INSULIN WITHDRAWAL AND ADMINISTRATION ON PLASMA GLU-

CAGON RESPONSES TO INTRAVENOUS ARGININE IN INSULIN-DEPENDENT DIABETIC SUBJECTS. Gerich JE, Lorenzi M, Tsalkian E, Bohannon NV, Schneider V, Karam JH, Forsham PH *Diabetes* 25: 955-60, Oct 76 (Eng) DL/77FEB103

Forsyth IA

MAMMOTROPHIC HORMONES IN RUMINANTS. PP. 422-32. Forsyth IA, Hart IC In *O Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) [91] DL/77FEB184*

ANIMAL; CATTLE; DEER; FEMALE; GOATS; INSULIN (physiology); KINETICS; LABOR; LACTATION; MALE; MAMMAE (physiology); MONOGRAPH (mortality); PLACENTA (metabolism); PLACENTAL LACTOGEN (physiology); PREGNANCY; PROLACTIN (physiology); RECEPTORS; HORMONE (metabolism); REVIEW; SHEEP; SOMATOTROPIN (physiology); SPECIES SPECIFICITY; UDDER (physiology).

Forthoft B

[NEONATAL HYPOGLYCEMIA FOLLOWING BETA BLOCKER TREATMENT IN PREGNANCY] Forthoft B, Jacobsen JR *Ugeskr Laeger* 138: 2958-9, 15 Nov 76 (Dan) DL/77FEB419

ADULT; CASE REPORT; ENGLISH ABSTRACT; FEMALE; HUMAN; HYPOGLYCEMIA (chemically induced, congenital); INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (chemically induced); LACTATION; MALE; MATERNAL-FETAL EXCHANGE; PRACTOLOL (adverse effects, therapeutic use); PREGNANCY.

Foster DW

GLUCAGON AND KETOGENESIS. McGarry JD, Robles-Valdes C, Foster DW *Metabolism* 25: 1387-9, Nov 76 (Eng) DL/77FEB280

Franchuk MM

[CHANGE OF THE CONTENT OF NUCLEIC ACIDS IN THE BLOOD OF PATIENTS WITH DIABETES MELLITUS DEPENDING ON THE SEVERITY OF THE DISEASE] Franchuk MM *Frach Delo* 76-8, Sep 76 (Rus) DL/77FEB428

ADOLESCENCE; ADULT; AGED; DIABETES MELLITUS (blood, drug therapy); DNA (blood); ENGLISH ABSTRACT; FEMALE; HUMAN; MALE; MIDDLE AGE; RNA (blood).

Frandsen EK

STRUCTURE-FUNCTION RELATIONSHIP: IMMUNOLOGIC. Heding LG, Frandsen EK, Jacobsen H *Metabolism* 25: 1327-9, Nov 76 (Eng) DL/77FEB267

Frantz AG

ACUTE AND CHRONIC ESTROGEN EFFECTS UPON SERUM SOMATOMEDIN ACTIVITY, GROWTH HORMONE, AND PROLACTIN IN MAN. Wiedemann E, Schwartz E, Frantz AG *J Clin Endocrinol Metab* 42: 942-52, May 76 (Eng) *DL/77FEB577

Fredholm BB

RELEASE OF ADENOSINE-LIKE MATERIAL FROM ISOLATED PERFUSED DOG ADIPOSE TISSUE FOLLOWING SYMPATHETIC NERVE STIMULATION AND ITS INHIBITION BY ADRENERGIC ALPHA-RECEPTOR BLOCKADE. Fredholm BB *Acta Physiol Scand* 96: 122-30, Mar 76 (Eng) *DL/77FEB689

ADENINE NUCLEOTIDES (metabolism); ADENINE (metabolism); ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADENOSINE MONOPHOSPHATE (metabolism); ADENOSINE (metabolism); ADIPOSE TISSUE (metabolism); ANIMAL EXPERIMENTS (analysis); DOGS; ELECTRIC STIMULATION;

FEMALE; GLYCERIN (metabolism); INOSINE (metabolism); PERFUSION; PHENTOLAMINE (pharmacodynamics); SYMPATHETIC NERVOUS SYSTEM (drug effects, physiology).

OXYGEN UPTAKE AND TISSUE OXYGEN TENSION DURING ADRENERGIC STIMULATION IN CANINE SUBCUTANEOUS ADIPOSE TISSUE. Fredholm BB, Linde B, Prewitt RL, Johnson PC *Acta Physiol Scand* 97: 48-59, Mar 76 (Eng) *DL/77FEB690

ADIPOSE TISSUE (blood supply, innervation, metabolism); ANIMAL EXPERIMENTS (analysis); CARBON DIOXIDE (blood); DIHYDROERGOTAMINE (pharmacodynamics); DOGS; ELECTRIC STIMULATION; FEMALE; HYDROGEN-ION CONCENTRATION; ISOPROTERENOL (pharmacodynamics); NOREPINEPHRINE (pharmacodynamics); OXYGEN CONSUMPTION (drug effects); OXYGEN (blood); PARTIAL PRESSURE; PROPRANOLOL (pharmacodynamics); REGIONAL BLOOD FLOW (drug effects); SYMPATHETIC NERVOUS SYSTEM (physiology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Freed WJ

THE ROLE OF NERVE-GROWTH FACTOR (NGF) IN THE CENTRAL NERVOUS SYSTEM. Freed WJ *Brain Res Bull* 1: 393-412, Jul-Aug 76 (Eng) [243] DL/77FEB33

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (physiology); ANIMAL; AXOPLASMIC FLOW; BRAIN (drug effects, growth & development, physiology); CALCIUM (pharmacodynamics); CELL MEMBRANE (metabolism); INSULIN (pharmacodynamics); MICE; NERVE GROWTH FACTOR (metabolism, pharmacodynamics); NERVE REGENERATION (drug effects); NEURONS (metabolism); ORGAN SPECIFICITY; PEPTIDE HYDROLASES (pharmacodynamics); PROTEIN BINDING (drug effects); REVIEW; SYMPATHETIC NERVOUS SYSTEM (metabolism); TUBULIN (metabolism); VINBLASTINE (pharmacodynamics).

Freeman BM

PHYSIOLOGICAL RESPONSES TO STRESS WITH REFERENCE TO THE DOMESTIC FOWL. Freeman BM *Lab Anim* 10: 385-8, Oct 76 (Eng) [15] DL/77FEB230

ADRENAL MEDULLA (physiology); ANIMAL; BLOOD SUGAR (analysis); CHICKENS (physiology); CORTICOTROPIN (secretion); EPINEPHRINE (physiology); FEMALE; GLUCAGON (physiology); HEART RATE; MALE; NORMAL VALUES; REVIEW; STRESS (physiopathology, veterinary).

Freeman RG

MALIGNANT ATROPHIC PAPULOSIS OF DEPOS. REPORT OF A PATIENT WHO FAILED TO RESPOND TO FIBRINOLYTIC THERAPY. Howsden SM, Hodge SJ, Herndon JH, Freeman RG *Arch Dermatol* 112: 1582-8, Nov 76 (Eng) [61] DL/77FEB490

Freinkel N

EPIDEMIOLOGIC FINDINGS ON THE RELATIONSHIP OF TIME OF DAY AND TIME SINCE LAST MEAL TO GLUCOSE TOLERANCE. Mayer KH, Stamler J, Dyer A, Freinkel N, Stamler R, Berkson DM, Farber B *Diabetes* 25: 936-43, Oct 76 (Eng) DL/77FEB100

[32P] ORTHOPHOSPHATE EFFLUX FROM PANCREATIC ISLETS: GRADED RESPONSE TO GLUCOSE STIMULATION. Pierce M, Bukowiecki L, Asplund K, Freinkel N *Horm Metab Res* 8: 358-61, Sep 76 (Eng) DL/77FEB142

INSULIN RELEASE AND PHOSPHATE ION EFFLUX FROM RAT PANCREATIC ISLETS INDUCED BY L-LEUCINE AND ITS NON-METABOLIZABLE ANALOGUE, 2-AMINO-

BICYCLO[2.2.1]HEPTANE-2-CARBOXYLIC ACID. Freinkel N, Younsi CE, Dawson RMC *Proc Natl Acad Sci USA* 73: 3403-7, Oct 76 (Eng) DL/77FEB358

AMINO ACIDS (pharmacodynamics); BICYCLO COMPOUNDS (biosynthesis); DEUTERIUM (pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, metabolism); LEUCINE (pharmacodynamics); MANNOHEPTULOSE (pharmacodynamics); PHOSPHATES (metabolism); STEREOISOMERS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

DRUG MODIFICATION OF HYPOTHERMIA INDUCED BY CNS GLUCOPENIA IN THE MOUSE. Mager M, Robinson S, Freinkel N *Biochem J* 157: 559-64, 1 Sep 76 (Eng) DL/77FEB499

Frerichs H

SOMATOSTATIN AND INSULIN RELEASE FROM ISOLATED RAT PANCREATIC ISLETS STIMULATED BY GLUCOSE. Schauder P, McIntosh C, Arends J, Arnold R, Frerichs H, Creutzfeldt W *FEBS Lett* 68: 225-7, 1 Oct 76 (Eng) DL/77FEB79

Freychet P

[INSULIN RECEPTORS-A REVIEW (AUTHORS TRANSL.)] Freychet P *Diabete Metab* 1: 57-68, Mar 75 (Fre) [82] DL/77FEB89

ADIPOSE TISSUE; ANIMAL; CELL MEMBRANE; ENGLISH ABSTRACT; HUMAN; INSULIN (metabolism); KINETICS; LIVER; LYMPHOCYTES; MICE; MICE, OBESE; MODELS, BIOLOGICAL; MYOCARDIUM; NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY (metabolism); PEPTIDE FRAGMENTS (metabolism); PROINSULIN (metabolism); PROTEIN BINDING; RADIOLIGAND ASSAY; RECEPTORS, INSULIN (metabolism); REVIEW; SPECIES SPECIFICITY; STRUCTURE-ACTIVITY RELATIONSHIP; TEMPERATURE.

GLUCAGON STIMULATES THE A SYSTEM FOR NEUTRAL AMINO ACID TRANSPORT IN ISOLATED HEPATOCYTES OF ADULT RAT. Le Cam A, Freychet P *Biochem Biophys Res Commun* 72: 893-901, 4 Oct 76 (Eng) DL/77FEB510

Fridman O

THE INFLUENCE OF STREPTOZOTOCIN DIABETES ON ADRENAL FUNCTION IN MALE RATS. De Nicola AF, Fridman O, Del Castillo EJ, Foglia VG *Horm Metab Res* 8: 388-92, Sep 76 (Eng) DL/77FEB145

Friedman DL

HORMONAL STIMULATION OF DNA SYNTHESIS IN PRIMARY CULTURES OF ADULT RAT HEPATOCYTES. Richman RA, Claus TH, Pilkins SJ, Friedman DL *Proc Natl Acad Sci USA* 73: 3589-93, Oct 76 (Eng) DL/77FEB360

Friedman L

FIELD DESORPTION MASS SPECTRUM OF GLUCAGON. Winkler HU, Beuhler RJ, Friedman L *Biomed Mass Spectrom* 3: 201-6, Oct 76 (Eng) DL/77FEB15

Friedman Z

RAPID ONSET OF ESSENTIAL FATTY ACID DEFICIENCY IN THE NEWBORN. Friedman Z, Danon A, Stahlman MT, Oates JA *Pediatrics* 58: 640-9, Nov 76 (Eng) DL/77FEB337

BLOOD TRANSFUSION; CASE REPORT; CHOLESTEROL ESTERS (blood); DIETARY FATS (administration & dosage); EXCHANGE TRANSFUSION; FATTY ACIDS, ESSENTIAL (deficiency); FATTY ACIDS, NONESTERIFIED (blood); HEART DEFECTS, CONGENITAL (therapy); HUMAN; INFANT NUTRITION DISORDERS (blood); INFANT NUTRITION; INFANT, NEWBORN; INFANT, NEWBORN,

Frier BM

DISEASES (blood); INFANT, PREMATURE; INFANT, PREMATURE, DISEASES (blood, therapy); INFANT, SMALL FOR GESTATIONAL AGE (injuries); PARENTAL HYPERALIMENTATION (adverse effects); PHOSPHOLIPIDS (blood); PREGNANCY IN DIABETES (complications); PREGNANCY; RESPIRATORY DISTRESS SYNDROME (therapy); TRIGLYCERIDES (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Frier BM

EXOCRINE PANCREATIC FUNCTION IN JUVENILE-ONSET DIABETES MELLITUS. Frier BM, Saunders JH, Wormsley KG, Bouchier IA *Gut* 17: 685-91, Sep 76 (Eng) DL/77FEB133
ADOLESCENCE; ADULT; AMYLASE (secretion); BICARBONATES (secretion); CHOLECYSTOKININ (pharmacodynamics); DIABETES MELLITUS, JUVENILE (drug therapy, physiopathology); FEMALE; HUMAN; INSULIN (therapeutic use); MALE; MIDDLE AGE; PANCREAS (physiopathology, secretion); SECRETIN (pharmacodynamics); STIMULATION, CHEMICAL; TIME FACTORS; TRYPSIN (secretion).

Friesen HG

INTERACTION OF CELL-MEMBRANE PROLACTIN RECEPTOR WITH ITS ANTIBODY. Shiu RP, Friesen HG *Biochem J* 157: 619-26, 1 Sep 76 (Eng) DL/77FEB501

Frohman LA

CENTRAL NERVOUS SYSTEM-MEDIATED STIMULATION OF GLUCAGON SECRETION IN THE DOG FOLLOWING 2-DEOXYGLUCOSE. Frohman LA, Nagai K *Metabolism* 25: 1449-52, Nov 76 (Eng) DL/77FEB295
ANIMAL; BLOOD SUGAR (metabolism); DEOXY SUGARS (pharmacodynamics); DEOXYGLUCOSE (administration & dosage, pharmacodynamics); DOGS; GLUCAGON (blood, secretion); INJECTIONS, INTRAVENOUS; INJECTIONS, INTRAVENICULAR; INSULIN (blood); ISLANDS OF LANGERHANS (drug effects, innervation, secretion); SPLANCHNIC NERVES (physiology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Froland A

[BETA RECEPTOR BLOCKING AGENTS, INSULIN AND HYPOGLYCEMIA] Froland A *Ugeskr Laeger* 138: 2970, 15 Nov 76 (Dan) DL/77FEB420

ADRENERGIC BETA RECEPTOR BLOCKADERS (adverse effects, therapeutic use); ANGINA PECTORIS (drug therapy); DIABETES MELLITUS (drug therapy); DRUG INTERACTIONS; ENGLISH ABSTRACT; HUMAN; HYPERTENSION (drug therapy); HYPOGLYCEMIA (chemically induced); INSULIN (adverse effects, therapeutic use).

Frollo I

INFLUENCE OF ASSISTED CIRCULATION ON CARDIAC METABOLISM. Ziegelhoffer A, Siska K, Holec V, Fedelešova M, Frollo I *Recent Adv Stud Cardiac Struct Metab* 1: 484-91, 1972 (Eng) *DL/77FEB646

Frost P

INDUCTION OF GLYCOSURIA AND HYPERGLYCEMIA BY TOPICAL CORTICOSTEROID THERAPY. Gomez EC, Frost P *Arch Dermatol* 112: 1559-62, Nov 76 (Eng) DL/77FEB489

Fujii J

[A STUDY OF ROENTGENOLOGIC AORTIC CALCIFICATION, GLUCOSE TOLERANCE, AND INSULIN SECRETORY RESPONSE (AUTHORS TRANSL)] Tanaka T, Seki A, Fujii J, Kuzuya N *J Jpn Soc Intern Med* 65: 569-74, 10 Jun 76 (Jpn) DL/77FEB195

Fujita H

KINETICS OF PROTEIN SYNTHESIS AND RELEASE IN THE STH-CELL OF THE MOUSE ANTERIOR PITUITARY AS REVEALED BY ELECTRON MICROSCOPIC AUTORADIOGRAPHY OF 3H-AMINO ACIDS. Hiura M, Komatsu M, Fujita H *Arch Histol Jpn* 38: 347-57, Feb 76 (Eng) *DL/77FEB709

Furth J

MULTIPOTENT LIPOTROPIC HORMONES. IN SEARCH OF A PITUITARY CELL PRODUCING MULTIPOTENT LPH. Furth J, Chretien M, Lis M, Belanger A, Moy P, Grauman J *Arch Pathol* 99: 572-81, Nov 75 (Eng) *DL/77FEB710

ANIMAL EXPERIMENTS (analysis); CORTICOTROPIN (secretion); CROSS REACTIONS; FEMALE; FLUORESCENT ANTIBODY TECHNIQUE; HUMAN; LIPOTROPIN (biosynthesis, secretion); MALE; MICE; MSH (secretion); PITUITARY GLAND (cytology); PITUITARY GLAND, ANTERIOR (cytology); PITUITARY GLAND, ANTERIOR (metabolism); RADIOIMMUNOASSAY; RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Fussganger R

INSULIN SECRETION AND BIOSYNTHESIS IN SUCROSE FED RATS. Laube H, Schatz H, Nierle C, Fussganger R, Pfeiffer EF *Diabetologia* 12: 441-6, Oct 76 (Eng) DL/77FEB112

Futch TW

ASSOCIATION OF GLYCOGENOLYSIS WITH CARDIAC SARCOPLASMIC RETICULUM. Entam ML, Kanike K, Goldstein MA, Nelson TE, Bornet EP, Futch TW, Schwartz A *J Biol Chem* 251: 3140-6, 25 May 76 (Eng) *DL/77FEB575

Gabbe SG

MATERNAL MORTALITY IN DIABETES MELLITUS: AN 18-YEAR SURVEY. Gabbe SG, Mestman JH, Hibbard LT *Obstet Gynecol* 48: 549-51, Nov 76 (Eng) DL/77FEB331
CALIFORNIA; FEMALE; HUMAN; HYPOGLYCEMIA (complications); KETOSIS, DIABETIC (mortality); MATERNAL MORTALITY; PREGNANCY IN DIABETES (complications, mortality); PREGNANCY.

Gabert A

[PROTEIN HYDROLYSIS BY IMMOBILIZED ENZYMES] Lasch J, Koelsch R, Roth P, Gabert A, Marquardt I, Hanson H *Acta Biol Med Ger* 35: 735-43, 1976 (Ger) DL/77FEB452

Gabunia RI

[RELATIONSHIP BETWEEN HORMONE CONCENTRATION IN PERIPHERAL BLOOD IN HYPERTENSION, ARTERIOSCLEROSIS AND OBESITY] Kokina LP, Lyskova MN, Tkacheva GA, Gabunia RI, Syrgantseva LM *Ter Arkh* 48: 81-4, 1976 (Rus) DL/77FEB410

Gailis L

TEMPERATURE-DEPENDENT ETHANOL INHIBITION OF [14C]LEUCINE INCORPORATION IN MOUSE HEART SLICES. Gailis L *Recent Adv Stud Cardiac Struct Metab* 7: 443-9, 1975 (Eng) *DL/77FEB674

ACETONE (pharmacodynamics); ALCOHOL, ETHYL (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); DIMETHYL SULFOXIDE (pharmacodynamics); HEART VENTRICLE (drug effects, metabolism); IN VITRO; LEUCINE (metabolism); MICE; MYOCARDIUM (metabolism); OXYGEN CONSUMPTION (drug effects); TEMPERATURE; TRANSLATION, GENETIC (drug effects).

Galabova R

ULTRASTRUCTURE OF B-CELLS OF LANGERHANS ISLETS IN RATS AFTER THE ADMINISTRATION OF L-LEUCINE. Galabova R, Petkov P *Endocrinol Exp (Bratisl)* 10: 217-23, 1976 (Eng) DL/77FEB67
ANIMAL; GOLGI APPARATUS (drug effects, ultrastructure); HISTOCYTOCHEMISTRY; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, secretion, ultrastructure); LEUCINE (pharmacodynamics); RATS; TIME FACTORS.

Galazka A

[RESULTS OF TREATMENT OF DIABETES IN SIPIDUS WITH PFIZERS DIABINESE (AUTHORS TRANSL)] Checinska Z, Galazka A, Gruszka S, Stepień M, Milewicz A, Szklarz E *Przegl Lek* 33: 697-9, 1976 (Pol) DL/77FEB370

Gale EA

CAN PHENFORMIN-INDUCED LACTIC ACIDOSIS BE PREVENTED Gale EA, Tattersall RB *Br Med J* 2: 972-5, 23 Oct 76 (Eng) DL/77FEB32

ACIDOSIS (chemically induced, complications, prevention & control); AGED; CARDIOVASCULAR DISEASES (complications); CASE REPORT; DIABETES MELLITUS (complications, drug therapy); FEMALE; HUMAN; KIDNEY DISEASES (complications); LACTATES (blood); LIVER DISEASES (complications); MALE; MIDDLE AGE; PHENFORMIN (administration & dosage, adverse effects, therapeutic use).

Gallaher WR

EFFECTS OF DENSITY-DEPENDENT INHIBITION OF GROWTH ON PHOSPHOLIPID METABOLISM IN MONOLAYER CULTURES OF ANIMAL CELLS. Gallaher WR, Blough HA *Arch Biochem Biophys* 173: 738-46, Apr 76 (Eng) *DL/77FEB704

CELL DIVISION; CELL LINE; CONTACT INHIBITION; FATTY ACIDS (analysis); GLYCERIN (metabolism); PHOSPHATIDIC ACIDS (biosynthesis); PHOSPHATIDYL CHOLINE (biosynthesis); PHOSPHATIDYL ETHANOLAMINE (biosynthesis); PHOSPHATIDYL INOSITOL (biosynthesis); PHOSPHATIDYL SERINE (biosynthesis); PHOSPHOLIPIDS (metabolism); SPHINGOMYELINS (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Galler M

SERUM LIPID CHANGES DURING CONTRACEPTIVE ADMINISTRATION IN OBESE WOMEN: RELATION TO SERUM INSULIN LEVELS. Gershberg H, Hulse M, Galler M *J Clin Endocrinol Metab* 43: 861-5, Oct 76 (Eng) DL/77FEB168

Gandar R

[ALPHA FETO PROTEIN. NORMAL PREGNANCIES AND MATERNAL DISEASES. APROPOS OF 3,010 RADIOIMMUNOLOGIC DETERMINATIONS] Brettes JP, Tourné CE, Gandar R *J Gynecol Obstet Biol Reprod (Paris)* 5: 637-44, Jul - Aug 76 (Fre) DL/77FEB176

Gannon MC

INSULIN STIMULATION OF HEART GLYCOGEN SYNTHASE D PHOSPHATASE (PROTEIN PHOSPHATASE). Nuttall FO, Gannon MC, Corbett VA, Wheeler MP *J Biol Chem* 251: 6724-9, 10 Nov 76 (Eng) DL/77FEB160

Garcia G

PROPRANOLOL EFFECT ON PLASMA GLUCOSE, FREE FATTY ACID, INSULIN, AND GROWTH HORMONE IN GRAVES DISEASE. Ortigosa JL, Mendoza F, Argote RM, Garcia G.

Diabetes Literature—Author Index

Gibson K

Cervantes C, Parra A *Metabolism* 25: 1201-7, Nov 76 (Eng) DL/77FEB260

Garfinkel AS

INTRACELLULAR AND EXTRACELLULAR FORMS OF LIPOPROTEIN LIPASE IN ADIPOSE TISSUE. Nilsson-Ehle P, Garfinkel AS, Schotz MC *Biochim Biophys Acta* 431: 147-56, 22 Apr 76 (Eng) *DL/77FEB522

Garnica A

METHYLMALONIC ACIDURIA AND HYPOGLYCEMIA [LETTER]. Garnica A, Desrosiers P, Sargent T *N Engl J Med* 295: 1136-7, 11 Nov 76 (Eng) DL/77FEB323
AMINO ACID METABOLISM, INBORN ERRORS (diagnosis); CASE REPORT; CHILD; CHILD, PRESCHOOL; COBAMIDES (biosynthesis); HUMAN; HYPOGLYCEMIA (etiology); MALE; MALONATES (urine); METHYLMALONIC ACID (urine).

Gartner R

MUSCLE METABOLISM OF GLUCOSE, LACTATE, FREE FATTY ACIDS, AND GLYCEROL AT REST AND DURING ELECTRICALLY STIMULATED EXERCISE IN THE PERFUSED RAT HIND LIMB (AUTHORS TRANSL.) Dieterle C, Gartner R, Dieterle P *Res Exp Med (Berl)* 168: 23-33, 22 Jul 76 (Ger) DL/77FEB378

Gasquet C

DIABETES MELLITUS IN PHEOCHROMOCYTOMA] Sudre Y, Becq-Giraudon B, Pouget-Abadie JF, Boutaud P, Barbier J, Meriel P, Gasquet C, Babin P *Sem Hop Paris* 52: 1893-902, 16 OCT 76 (Fre) DL/77FEB399

Gaudemer Y

EFFECT OF VARIOUS INHIBITORS ON OXIDATIVE ACTIVITY AND ULTRASTRUCTURE OF RAT LIVER MITOCHONDRIA] Latruffe N, Lenys D, Gaudemer Y, Bugnon C *R Soc Biol (Paris)* 169: 1290-5, 1975 (Fre) *DL/77FEB529

Gavrisheva NA

ROLE OF THE THROMBOCYTES IN CHANGES IN THE HEMOSTATIC SYSTEM IN DIABETES MELLITUS] Petrov MN, Gavrisheva NA, Filatova AM, Tsikarishvili NV, Vashkinel VK *Klin Med (Mosk)* 54: 119-22, Jul 76 (Rus) DL/77FEB229

Gay G

DRUG-INDUCED HYPOGLYCEMIA IN DIABETIC PATIENTS] Gay G, Debry G *Nouv Presse Med* 5: 2156-8, 9 Oct 76 (Fre) DL/77FEB344

ADRENERGIC BETA RECEPTOR

BLOCKADERS (adverse effects); BIGUANIDES (adverse effects); DIABETES MELLITUS (drug therapy); HYPOGLYCEMIA (chemically induced); HYPOGLYCEMIA AGENTS (adverse effects); INSULIN (adverse effects); MONOAMINE OXIDASE INHIBITORS (adverse effects); SULFONAMIDES (adverse effects).

Gebicki JM

PREPARATION AND PROPERTIES OF VESICLES ENCLOSED BY FATTY ACID MEMBRANES. Gebicki JM, Hicks M *Chem Phys Lipids* 16: 142-60, Mar 76 (Eng) *DL/77FEB534

BINDING SITES; BIOLOGICAL TRANSPORT; CHOLESTEROL; GLUCOSE; LINOLEIC ACIDS; MEMBRANES, ARTIFICIAL; MODELS; BIOLOGICAL; OLEIC ACIDS; OSMOTIC PRESSURE; SPECTROPHOTOMETRY, ULTRAVIOLET.

Gece A

STUDIES ON MEMBRANE-BOUND RENIN IN THE MOUSE AND RAT. Wilson CM, Ward PE,

Erdoes EG, Gece A *Circ Res* 38: 95-8, Jun 76 (Eng) *DL/77FEB541

Gee JB

OXYGEN METABOLISM IN THE ALVEOLAR MACROPHAGE: FRIEND AND FOE Bernard J, Gee JB, Khandwala AS *J Reticuloendothel Soc* 19: 229-36, Apr 76 (Eng) *DL/77FEB601

Gembardt C

[PATHOGENESIS OF SPONTANEOUS DIABETES MELLITUS IN THE CAT. II. ACIDOPHILIC ADENOMA OF THE PITUITARY GLAND AND DIABETES MELLITUS IN 2 CASES] Gembardt C, Loppnow H *Berl Munch Tierarztl Wochenschr* 89: 336-40, 1 Sep 76 (Ger) DL/77FEB497

ADENOMA, EOSINOPHILIC (complications, veterinary); ANIMAL; CASE REPORT; CAT DISEASES (pathology); CATS; DIABETES MELLITUS (veterinary); ENGLISH ABSTRACT; MALE; PITUITARY NEOPLASMS (complications, veterinary).

Genant HK

COMPARISON OF NON-SCREEN TECHNIQUES (MEDICAL VS. INDUSTRIAL FILM) FOR FINE-DETAIL SKELETAL RADIOGRAPHY. Genant HK, Doi K, Mall JC *Invest Radiol* 11: 486-500, SEP-OCT 76 (Eng) DL/77FEB151

ARTHRITIS (radiography); BONE DISEASES (radiography); BONE RESORPTION (radiography); COMPARATIVE STUDY; DIABETES MELLITUS (radiography); FOOT (radiography); HAND (radiography); HUMAN; HYPERPARATHYROIDISM (radiography); INFANT; JOINT DISEASES (radiography); OSTEOMYELITIS (radiography); PSORIASIS (radiography); RENAL OSTEODYSTROPHY (radiography); SPONDYLITIS, ANKYLOSING (radiography); TECHNOLOGY, RADIOLOGIC; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Geppert E

EFFECT ON MYOCARDIAL METABOLIC PATTERN OF LOCAL COMPLETE AND INCOMPLETE ISCHEMIA. Isselhard W, Geppert E, Menge M, Lauterjung KL, Vogel W, Witte J, Heugel E *Recent Adv Stud Cardiac Struct Metab* 7: 231-6, 1975 (Eng) *DL/77FEB664

Gerich JE

EFFECTS OF ACUTE INSULIN WITHDRAWAL AND ADMINISTRATION ON PLASMA GLUCAGON RESPONSES TO INTRAVENOUS ARGININE IN INSULIN-DEPENDENT DIABETIC SUBJECTS. Gerich JE, Lorenzi M, Tsalkian E, Bohannon NV, Schneider V, Karam JH, Forsham PH *Diabetes* 25: 955-60, Oct 76 (Eng) DL/77FEB103

ADOLESCENCE; ADULT; ARGININE (diagnostic use); BLOOD SUGAR (metabolism); DIABETES MELLITUS, JUVENILE (blood, drug therapy); GLUCAGON (blood); HUMAN; INSULIN (pharmacodynamics); MALE.

CONTROL OF PANCREATIC IIRG SECRETION IN VIVO. Gerich JE *Metabolism* 25: 1437-41, Nov 76 (Eng) [13] DL/77FEB292
EATING; FASTING; GLUCAGON (immunology, secretion); ISLANDS OF LANGERHANS (secretion); REVIEW; STRESS (physiopathology); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

METABOLIC EFFECTS OF LONG-TERM SOMATOSTATIN INFUSION IN MAN. Gerich JE *Metabolism* 25: 1505-7, Nov 76 (Eng) DL/77FEB310

BLOOD SUGAR (metabolism); DIABETES MELLITUS (blood); DIURNAL RHYTHM; GLUCAGON (blood); HUMAN; INSULIN (blood); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); SOMATOTROPIN RELEASE INHIBITING HORMONE (adverse effects); SOMATOTROPIN

(blood); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

ALPHA CELL FUNCTION IN DIABETES MELLITUS. Gerich JE *Metabolism* 25: 1513-6, Nov 76 (Eng) DL/77FEB312

ARGININE (pharmacodynamics); DIABETES MELLITUS (drug therapy, physiopathology); EATING; EPINEPHRINE (pharmacodynamics); GLUCAGON (secretion); GLUCOSE (pharmacodynamics); HUMAN; HYPERGLYCEMIA (prevention & control); INSULIN (pharmacodynamics); ISLANDS OF LANGERHANS (drug effects, secretion); SOMATOTROPIN RELEASE INHIBITING HORMONE (therapeutic use); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Gerritsen GC

THE ROLE OF NUTRITION TO DIABETES IN RELATION TO AGE. PP. 229-52. Gerritsen GC In *0 Rockstein M, Sussman ML, ed. Nutrition, longevity, and aging. New York, Academic Press, 1976. WT 104 N977 1976. (Eng) [84] DL/77FEB193*

AGED; AGING; ANIMAL; BASEMENT MEMBRANE (pathology); BODY WEIGHT; CALORIC INTAKE; CARDIOVASCULAR DISEASES (etiology, mortality); COMPARATIVE STUDY; DIABETES MELLITUS (complications, etiology, familial & genetic, mortality); DIETARY CARBOHYDRATES (adverse effects); DISEASE MODELS, ANIMAL; EATING; HUMAN; LONGEVITY; MONOGRAPH (mortality); NUTRITION; OBESITY (complications); PREDIABETIC STATE (metabolism); REVIEW; RISK; SUCROSE (adverse effects).

Gershenson LE

TRIACETYLATED INSULIN: BIOLOGIC ACTIVITY AND RESISTANCE TO DEGRADATION. Kaplan SA, Morris JW, Davidson MB, Gershenson LE, Scott M *Metabolism* 25: 1209-16, Nov 76 (Eng) DL/77FEB261

Gershberg H

SERUM LIPID CHANGES DURING CONTRACEPTIVE ADMINISTRATION IN OBESE WOMEN: RELATION TO SERUM INSULIN LEVELS. Gershberg H, Hulse M, Galler M *J Clin Endocrinol Metab* 43: 861-5, Oct 76 (Eng) DL/77FEB168

ADOLESCENCE; ADULT; CHOLESTEROL (blood); CONTRACEPTIVES, ORAL (therapeutic use); CONTRACEPTIVES, ORAL, SYNTHETIC (therapeutic use); FASTING; FEMALE; HUMAN; HYPERLIPIDEMIA (blood, etiology); INSULIN (blood); LIPIDS (blood); OBESITY (blood, complications).

Getz GS

ABNORMALITIES OF THE ARTERIAL WALL AND ITS METABOLISM IN ATHEROGENESIS. Wissler RW, Vesselinovitch D, Getz GS *Prog Cardiovasc Dis* 18: 341-69, Mar-Apr 76 (Eng) *DL/77FEB631

Gibson GE

KETONIC DIET IN THE MANAGEMENT OF PYRUVATE DEHYDROGENASE DEFICIENCY. Falk RE, Cederbaum SD, Blass JP, Gibson GE, Kark RA, Carrel RE *Pediatrics* 58: 713-21, Nov 76 (Eng) DL/77FEB338

Gibson K

THE EFFECTS OF POLYAMINES ON CARDIAC PROTEIN BIOSYNTHESIS. Gibson K, Harris P *Recent Adv Stud Cardiac Struct Metab* 7: 71-6, 1975 (Eng) *DL/77FEB678
AMINOISOBUTYRIC ACID (metabolism); ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT; CELL MEMBRANE (drug effects, metabolism); CELL-FREE SYSTEM, IN VITRO; MAGNESIUM (pharmacodynamics); MUSCLE PROTEINS (biosynthesis); MYOCARDIUM (metabolism);

Gibson WR

PERFUSION; PHENYLALANINE (metabolism); POLYAMINES (pharmacodynamics); PUTRESCINE (pharmacodynamics); RATS; SPERMIDINE (pharmacodynamics); SPERMINE (pharmacodynamics); TRANSLATION, GENETIC (drug effects).

Gibson WR

EFFECT OF HYPOPHYSECTOMY AND INSULIN ON LIPOGENESIS IN COCKERELS. Kompang IP, Gibson WR *Horm Metab Res* 8: 340-5, Sep 76 (Eng) DL/77FEB138

Gilbertson JR

PARTIAL PURIFICATION OF THE NADPH-DEPENDENT ALDEHYDE REDUCTASE FROM BOVINE CARDIAC MUSCLE. Kawalek JC, Gilbertson JR *Arch Biochem Biophys* 173: 649-57, Apr 76 (Eng) *DL/77FEB703

Gilfrich HJ

PHARMACOKINETIC ANALYSIS OF THE INTERACTION BETWEEN DICOUMAROL AND TOLBUTAMIDE IN MAN. Jahnchen E, Meinertz T, Gilfrich HJ, Groth U *Eur J Clin Pharmacol* 10: 349-56, 30 Sep 76 (Eng) DL/77FEB74

Gill TS

EFFECT OF SOMATOTROPIN UPON A FRESH-WATER FISH, CHANNA PUNCTATUS (BLOCH). Gill TS *Anat Anz* 140: 199-201, 1976 (Eng) DL/77FEB485
ANIMAL; BLOOD SUGAR (metabolism); FISHES (metabolism); ISLANDS OF LANGERHANS (drug effects); SOMATOTROPIN (pharmacodynamics).

Gilon C

CONTROL OF ANTERIOR PITUITARY HORMONE SECRETION. HYPOTHALAMIC PEPTIDES AND THEIR INTERACTIONS. PP. 180-95. Grant G, Vale W, Brazeau P, Rivier J, Monahan M, Gilon C, Amoss M, Rivier C, Ling N, Burgess R, Guillemin R *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function. Basel, Karger, 1974. WL 312 165r 1973. (Eng) [39] *DL/77FEB588*

Girard JR

STUDIES ON EXPERIMENTAL HYPOTROPHY IN THE RAT. III. PLASMA INSULIN AND GLUCAGON. Girard JR, Chanez C, Kervran A, Tordet-Caridroit C, Assan R *Biol Neonate* 29: 262-6, 1976 (Eng) DL/77FEB13
AGE FACTORS; ANIMAL; ANIMALS, NEWBORN; BLOOD SUGAR (analysis); FETAL DISEASES (blood); GLUCAGON (blood); GROWTH DISORDERS (blood); INSULIN (blood); RATS; WEANING.

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteceuvre M, Buneaux JJ *Diabete Metab* 1: 101-11, Jun 75 (Eng) DL/77FEB91

TIME COURSE OF GLUCOSE-INDUCED INCREASE IN PLASMA INSULIN IN THE RAT FETUS IN UTERO. Dervran A, Girard JR *J Endocrinol* 70: 519-20, Sep 76 (Eng) DL/77FEB199

Gillitz P

EFFECTS OF TRIETHYLENETETRAMINE UPON THE METABOLISM AND TOXICITY OF 63NiCl₂ IN RATS. Sunderman FW Jr, Kasprzak K, Horak E, Gillitz P, Onkelinx C *Toxicol Appl Pharmacol* 38: 177-88, Oct 76 (Eng) DL/77FEB414

Gladnikoff G

POTENTIATION OF GLUCOSE-INDUCED INSULIN RELEASE BY GLUCOSE IN THE ISOLATED PANCREAS OF FED AND FASTED RATS. Efendic S, Cerasi E, Luft R, Gladnikoff G *Diabetes* 25: 949-54, Oct 76 (Eng) DL/77FEB102

Diabetes Literature—Author Index

Gilemann J

THE EXCRETION OF INSULIN IN URINE. El-Alawy RM, Sonne O, Gilemann J, Orskov H, Johansen K *Diabetologia* 12: 523-6, Oct 76 (Eng) DL/77FEB122

Gloster J

THE UPTAKE OF FREE FATTY ACID IN THE RAT HEART. Harris P, Achillea M, Gloster J *Recent Adv Stud Cardiac Struct Metab* 7: 23-7, 1975 (Eng) *DL/77FEB663

Gmeiner R

EFFECT OF PALMITATE ON HYPOXIC MYOCARDIAL METABOLISM AND CONTRACTILITY. Apstein CS, Gmeiner R, Brachfeld N *Recent Adv Stud Cardiac Struct Metab* 1: 136-46, 1972 (Eng) *DL/77FEB635

Godicke W

INSULIN KINETIC, GLUCOSE TOLERANCE, AND LIPID METABOLISM IN GENETICALLY SPONTANEOUS-HYPERTENSIVE RATS. Baumann R, Moritz V, Godicke W, Postnow JW, Ziegler M *Acta Biol Med Ger* 35: k 33-9, 1976 (Eng) DL/77FEB451

Goetz FC

FRAGMENTATION HAEMOLYSIS IN PATIENTS WITH SEVERE DIABETIC ANGIOPATHY. Brunning RD, Jacob HS, Brenckman WD, Jimenez-Pasquau F, Goetz FC *Br J Haematol* 34: 283-9, Oct 76 (Eng) DL/77FEB7

SPECIAL PROBLEMS IN DIABETIC RENAL TRANSPLANTATION. Simmons RL, Payne WD, Sutherland DE, Howard RJ, Goetz FC, Barbosa J, Kjellstrand CM, Najarian JS *Urol Clin North Am* 3: 691-9, Oct 76 (Eng) DL/77FEB424

Goldfine ID

GENETIC ORIGIN OF DIABETES [LETTER]. Rosenthal MB, Goldfine ID, Siperstein MD *Lancet* 2: 908-9, 23 Oct 76 (Eng) DL/77FEB247

INHERITANCE OF DIABETES MELLITUS [LETTER]. Rosenthal MB, Goldfine ID, Siperstein MD *N Engl J Med* 295: 1321, 2 Dec 76 (Eng) DL/77FEB324

Goldstein MA

ASSOCIATION OF GLYCOGENOLYSIS WITH CARDIAC SARCOPLASMIC RETICULUM. Entam ML, Kanike K, Goldstein MA, Nelson TE, Bornet EP, Futch TW, Schwartz A *J Biol Chem* 251: 3140-6, 25 May 76 (Eng) *DL/77FEB575

Gomez EC

INDUCTION OF GLYCOSURIA AND HYPERGLYCEMIA BY TOPICAL CORTICOSTEROID THERAPY. Gomez EC, Frost P *Arch Dermatol* 112: 1559-62, Nov 76 (Eng) DL/77FEB489

ADMINISTRATION, TOPICAL; ADRENAL CORTEX HORMONES (administration & dosage, adverse effects); ADULT; BETAMETHASONE 17-VALERATE (adverse effects); CASE REPORT; FEMALE; GLUCOSE TOLERANCE TEST; GLYCOSURIA (chemically induced); HUMAN; HYPERGLYCEMIA (chemically induced); MALE; MIDDLE AGE; PREDIABETIC STATE (diagnosis); PSORIASIS (drug therapy); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.)

Gomez-Pan A

EFFECTS OF GROWTH HORMONE-RELEASE INHIBITING HORMONE (GH-RH OR SOMATOSTATIN) ON SECRETORY PROCESSES IN STOMACH AND PANCREAS. PP. 407-12. Albinus M, Case RM, Reed JD, Shaw B, Smith PA, Gomez-Pan A, Hall R, Besser GM, Schally AV *Ino Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal*

*tract. Baltimore, Univ Park Press, 1976. WI 102 5859 1975. (Eng) *DL/77FEB586*

Gommers A

[PROBLEMS IN GLYCOREGULATION AND SENESCENCE] Gommers A, Jeanjean M, Dehez-Delhay M *Probl Actuels Endocrinol Nutr serie 17: 193-207, 1973 (Fre) DL/77FEB357*
AGE FACTORS; AGING; ANIMAL; BLOOD SUGAR (metabolism); GLUCOSE (pharmacodynamics); HOMEOSTASIS; INSULIN RESISTANCE; INSULIN (blood, pharmacodynamics); MALE; RATS.

Goodman MN

GLUCOSE METABOLISM IN PERFUSED SKELETAL MUSCLE. EFFECTS OF STARVATION, DIABETES, FATTY ACIDS, ACETOACETATE, INSULIN AND EXERCISE ON GLUCOSE UPTAKE AND DISPOSITION. Berger M, Hagg SA, Goodman MN, Ruderman NB *Biochem J* 158: 191-202, 15 Aug 76 (Eng) DL/77FEB504

Gorden P

RADIORECEPTOR ASSAY OF PLASMA NSILAS IN MAN: BASAL AND STIMULATED LEVELS IN NORMAL AND PATHOLOGIC STATES. PP. 127-40. Megyesi K, Kahn CR, Roth J, Gorden P, Neville DM Jr *Ino Picile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. WJ EX89 no.381 1975. (Eng) DL/77FEB187*

Gordon M

INTENSIVE CARE OF THE PREGNANT DIABETIC. Gugliucci CL, O'Sullivan MJ, Opperman W, Gordon M, Stone ML *Am J Obstet Gynecol* 125: 435-41, 15 JUN 76 (Eng) DL/77FEB469

Gorlin R

NATURAL HISTORY OF CORONARY HEART DISEASE. Gorlin R *Major Probl Intern Med* 11: 195-215, 1976 (Eng) DL/77FEB236
CORONARY DISEASE (complications, diagnosis, pathology); CORONARY VESSELS (pathology, radiography); DIABETES MELLITUS (complications); ELECTROCARDIOGRAPHY; ELECTROPHYSIOLOGY, HUMAN; HYPERCHOLESTEREMIA (complications); HYPERTENSION (complications); LIPIDS (blood); MYOCARDIUM (pathology); OBESITY (complications); PROGNOSIS; RISK; SMOKING (complications).

THERAPY TO CONTROL CORONARY ATHEROSCLEROSIS AND ITS COMPLICATIONS. Gorlin R *Major Probl Intern Med* 11: 281-92, 1976 (Eng) DL/77FEB237
ANTICOAGULANTS (therapeutic use); CORONARY DISEASE (complications, therapy); DIABETES MELLITUS (complications, therapy); EXERTION; FIBRINOLYTIC AGENTS (therapeutic use); HUMAN; HYPERTENSION (complications, therapy); LIPIDS (blood); RISK; SEX HORMONES (therapeutic use); SMOKING.

Goto A

COMPARISON STUDIES OF NEUROTENSIN AND XENOPSIN UPON PANCREATIC SECRETION IN THE DOG [PROCEEDINGS]. Ishida T, Kawamura K, Goto A, Nishina Y, Takahara J *Metabolism* 25: 1467, Nov 76 (Eng) DL/77FEB301

Gottlieb LS

AUGMENTATION OF ETHANOL ABSORPTION BY MONO- AND DISACCHARIDES. Broitman SA, Gottlieb LS, Vitale JJ *Gastroenterology* 70: 1101-7, Jun 76 (Eng) *DL/77FEB557

Grabski J

[HORMONAL DISORDERS IN A PATIENT WITH MORGAGNI-MOREL-STEWART SYNDROME] Hrycek A, Kubek A, Grabski J, Kalina

Z Wlad Lek 29: 1673-6, 15 Sep 76 (Pol)
DL/77FEB432

Grajwer LA

ROLE OF GLUCAGON IN PERINATAL GLUCOSE HOMEOSTASIS. Sperling MA, Grajwer LA, Leake R, Fisher DA *Metabolism* 25: 1385-6, Nov 76 (Eng) DL/77FEB279

Grant G

CONTROL OF ANTERIOR PITUITARY HORMONE SECRETION. HYPOTHALAMIC PEPTIDES AND THEIR INTERACTIONS. PP. 180-95. Grant G, Vale W, Brazeau P, Rivier J, Monahan M, Gilon C, Amoss M, Rivier C, Ling N, Burgus R, Guillemain R *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function. Basel, Karger, 1974. WL 312 165r 1973. (Eng) [39] *DL/77FEB588*

AMIDES; AMINO ACID SEQUENCE; ANIMAL EXPERIMENTS (analysis); BINDING; COMPETITIVE; HISTIDINE; HUMAN; HYPOTHALAMUS (metabolism, physiology); IN VITRO; LH-FSH RELEASING HORMONE (analogs & derivatives, physiology); MOLECULAR CONFORMATION; MONOGRAPH (mortality); PITUITARY HORMONES, ANTERIOR (secretion); PROLINE (analogs & derivatives); PYRROLIDONECARBOXYLIC ACID; RECEPTORS, HORMONE; REVIEW; SOMATOTROPIN RELEASE INHIBITING HORMONE (analogs & derivatives, physiology); STRUCTURE-ACTIVITY RELATIONSHIP; THYROTROPIN RELEASING HORMONE (analogs & derivatives, metabolism, physiology).

Grauman J

MULTIPOTENT LIPOTROPIC HORMONES. IN SEARCH OF A PITUITARY CELL PRODUCING MULTIPOTENT LPH. Furth J, Chretien M, Lis M, Belanger A, Moy P, Grauman J *Arch Pathol* 99: 572-81, Nov 75 (Eng) *DL/77FEB170

Greaves MF

CELL SURFACE RECEPTORS. A BIOLOGICAL PERSPECTIVE. PP. 1-32. Greaves MF *Ino Cuatrecasas P, Greaves MF, ed. Receptors and recognition. Series A. London, Chapman & Hall, 1976. W1 RE107m v.1 1976. (Eng) [83] *DL/77FEB587*

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADENYL CYCLASE (metabolism); ANTIGEN-ANTIBODY REACTIONS; ANTIGENIC DETERMINANTS; CELL AGGREGATION; CELL MEMBRANE (physiology); EMBRYONIC INDUCTION; EUROPE; GENES, STRUCTURAL; HISTOCOMPATIBILITY; HISTORICAL ARTICLE; HISTORY OF MEDICINE, 19TH CENT.; HISTORY OF MEDICINE, 20TH CENT.; MODELS, BIOLOGICAL; MOLECULAR CONFORMATION; MONOGRAPH (mortality); NEURAL TRANSMISSION; PHYSIOLOGY (history); RECEPTORS, DRUG; RECEPTORS, HORMONE; REVIEW; SPERMATOZOA (immunology); STRUCTURE-ACTIVITY RELATIONSHIP; UNITED STATES).

Greene DA

DIABETIC POLYNEUROPATHY: THE IMPORTANCE OF INSULIN DEFICIENCY, HYPERGLYCEMIA AND ALTERATIONS IN MYOINOSITOL METABOLISM IN ITS PATHOGENESIS. Winegrad AI, Greene DA *N Engl J Med* 295: 1416-21, 16 Dec 76 (Eng) DL/77FEB326

Greengard P

REGULATION BY LIPOLYTIC AND ANTILIPOLYTIC COMPOUNDS OF THE PHOSPHORYLATION OF SPECIFIC PROTEINS IN ISOLATED INTACT FAT

CELLS. Forn J, Greengard P *Arch Biochem Biophys* 176: 721-33, Oct 76 (Eng) DL/77FEB488

Greenidge N

INHIBITION OF ACTIONS OF GLUCAGON IN ADIPOCYTES BY GASTRIC INHIBITORY POLYPEPTIDE. Dupre J, Greenidge N, McDonald TJ, Ross SA, Rubinstein D *Metabolism* 25: 1197-9, Nov 76 (Eng) DL/77FEB259

Grenier JF

[XENOTRANSPLANTATION OF FETAL ENDOCRINE PANCREATIC TISSUE. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 690-9, 1976 (Fre) DL/77FEB61

ANIMAL; CHICK EMBRYO; DIABETES MELLITUS (therapy); ENGLISH ABSTRACT; EVALUATION STUDIES; ISLANDS OF LANGERHANS (transplantation); LIVER; RATS; TIME FACTORS; TRANSPLANTATION, HETEROLOGOUS.

Griffey MA

IONOPHORE A23187-INDUCED INSULIN SECRETION IN THE ISOLATED, PERFUSED DOG PANCREAS. Conaway HH, Griffey MA, Marks SR, Whitney JE *Horm Metab Res* 8: 351-3, Sep 76 (Eng) DL/77FEB140

Grigorian AV

[TREATMENT OF MOIST GANGRENE OF THE LOWER LIMBS IN PATIENTS WITH DIABETES MELLITUS] Struchkov VI, Grigorian AV, Oganessian SS *Khirurgiya (Mosk)* 63-8, Sep 76 (Rus) DL/77FEB225

Grill V

ENHANCEMENT BY D2O OF GLUCOSE-INDUCED CYCLIC AMP ACCUMULATION IN RAT ISLETS OF LANGERHANS. Grill V, Cerasi E *FEBS Lett* 68: 165-9, 1 Oct 76 (Eng) DL/77FEB78

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL; DEUTERIUM; GLUCOSE (pharmacodynamics); IN VITRO; ISLANDS OF LANGERHANS (drug effects, metabolism); KINETICS; MALE; RATS; TOXINS (pharmacodynamics); WATER (metabolism); XANTHINES (pharmacodynamics); 3,5-CYCLIC AMP PHOSPHODIESTERASE (metabolism).

Grindeland RE

STUDIES ON THE NATURE OF PLASMA GROWTH HORMONE. PP. 75-83. Ellis S, Grindeland RE, Reilly TJ, Yang SH *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB191*

Gross R

THE CONTRIBUTION OF THE PANCREAS AND THE INTESTINE TO THE REGULATION OF LIPOLYSIS IN BIRDS. 2. IMPAIRED LIPOLYTIC ACTIVITY OF PANCREATIC GLUCAGON IN THE ABSENCE OF EITHER THE PANCREAS OR THE INTESTINE IN THE CHICKEN. Krug E, Gross R, Mialhe P *Horm Metab Res* 8: 345-50, Sep 76 (Eng) DL/77FEB139

Gross W

[DIABETES MELLITUS, HEMOSTATIC FUNCTION, AND DIABETIC ANGIOPATHY] Zoller H, Gutmann W, Fahrer E, Gross W *Med Welt* 27: 1742-3, 10 Sep 76 (Ger) DL/77FEB258

Groth U

PHARMACOKINETIC ANALYSIS OF THE INTERACTION BETWEEN DICOUMAROL AND TOBUTAMIDE IN MAN. Jahnchen E, Meinertz T, Gilfrich HJ, Groth U *Eur J Clin Pharmacol* 10: 349-56, 30 Sep 76 (Eng) DL/77FEB74

Grube D

[THE ENDOCRINE CELLS OF THE GASTROINTESTINAL EPITHELIUM AND THE METABOLISM OF BIOGENIC AMINES IN THE GASTROINTESTINAL TRACT (AUTHORS TRANSL.)] Grube D *Prog Histochem Cytochem* 8: 1-128, 1976 (Ger) [968] DL/77FEB369

ANIMAL; BIOGENIC AMINES (metabolism); CATECHOLAMINES (metabolism); CHROMAFFIN SYSTEM (metabolism); DIET; DOPA (metabolism); ENGLISH ABSTRACT; ENTEROCHROMAFFIN CELLS (metabolism, ultrastructure); GASTRIC MUCOSA (cytology, metabolism); GLUCAGON (metabolism); HISTAMINE (metabolism); HISTOCYTOCHEMISTRY; HYDROXYTRYPTOPHAN (metabolism); INTESTINAL MUCOSA (cytology, metabolism); MALE; MAST CELLS (metabolism); MICROSCOPY, FLUORESCENCE; P-CHLOROPHENYLALANINE (pharmacodynamics); RATS; REVIEW; SEROTONIN (biosynthesis); TRYPTOPHAN (metabolism).

Gruen PH

NEUROENDOCRINE STUDIES OF DEPRESSIVE ILLNESS. Sachar EJ, Roffwarg HP, Gruen PH, Altman N, Sassin J *Pharmacopsychiatr Neuropsychopharmacol* 9: 11-7, Jan 76 (Eng) DL/77FEB363

Grujic M

[ORAL THERAPY OF DIABETES MELLITUS BY COMBINATION OF HYPOGLYCEMIC AGENTS] Grujic M, Perinovic M, Rizvanbegovic B *Med Arh* 30: 167-71, May-Jun 76 (Ser) DL/77FEB238

DIABETES MELLITUS (drug therapy); DRUG THERAPY, COMBINATION; FEMALE; HUMAN; HYPOGLYCEMIC AGENTS (administration & dosage, therapeutic use); INSULIN (administration & dosage, therapeutic use); MALE; MIDDLE AGE.

Grun H

ON THE MEASUREMENT OF SPONTANEOUS PLATELET AGGREGATION. THE PLATELET AGGREGATION TEST III. METHODS AND FIRST CLINICAL RESULTS. Breddin K, Grun H, Krzywanek HJ, Schremmer WP *Thromb Haemostas* 35: 669-91, 30 Jun 76 (Eng) DL/77FEB412

Gruener M

[THE SMALL LEFT COLON SYNDROME. 3 CASES] Neunenschwander S, Montagne JP, Boudou A, Bouron D, Mougnot JF, Gruener M, Faure C *Nouv Presse Med* 6: 2311-4, 23 Oct 76 (Fre) DL/77FEB346

Gruszka S

[RESULTS OF TREATMENT OF DIABETES IN SIPIDUS WITH PFIZERS DIABINESE (AUTHORS TRANSL.)] Chęcinska Z, Gálazka A, Gruszka S, Stepień M, Milewicz A, Szklarz E *Przegl Lek* 33: 697-9, 1976 (Pol) DL/77FEB370

Gudbjarnason S

METABOLIC CHANGES IN INFARCTED AND NON-INFARCTED MYOCARDIUM DURING THE POSTINFARCTION PERIOD. Gudbjarnason S, Ravens KG, Mathes P *Recent Adv Stud Cardiac Struct Metab* 1: 439-46, 1972 (Eng) *DL/77FEB644

ACID PHOSPHATASE (metabolism); ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANABOLIC STEROIDS (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); DISEASE MODELS, ANIMAL; DOGS; GLUCURONIDASE (metabolism); HEART VENTRICLE (physiopathology); HEART (drug effects); LACTATES (metabolism); MYOCARDIAL

Guerra SM

CONTRACTION; MYOCARDIAL INFARCT (metabolism, physiopathology); MYOCARDIUM (metabolism); NOREPINEPHRINE (metabolism); PHOSPHOCREATINE (metabolism); PROLINE (metabolism); PYRUVATES (metabolism); TIME FACTORS.

METABOLISM OF NOREPINEPHRINE IN NONINFARCTED HEART MUSCLE AFTER EXPERIMENTAL MYOCARDIAL INFARCTION. Mathes P, Sack DW, Gudbjarnason S. *Recent Adv Stud Cardiac Struct Metab* 7: 283-7, 1975 (Eng) *DL/77FEB670

Guerra SM

RECURRENT DIABETIC KETOACIDOSIS: COMPARISON OF THERAPY WITH LOW DOSE AND HIGH DOSE INSULIN. Guerra SM. *J Tenn Med Assoc* 69: 781-4, Nov 76 (Eng) DL/77FEB233

ACIDOSIS, DIABETIC (drug therapy); ADULT; CASE REPORT; DOSE-RESPONSE RELATIONSHIP, DRUG; HUMAN; INSULIN (administration & dosage, therapeutic use); KETOSIS, DIABETIC (drug therapy); MALE; RECURRENCE.

Guerresi E

[PROGNOSIS OF CHILDREN OF MOTHERS WITH DIABETES MELLITUS] Salvioi GP, Dallacasa P, Bottigliani F, Guerresi E. *Minerva Pediatr* 28: 212-6, 11 Feb 76 (Ita) DL/77FEB320

Gueyikian I

EARLY CHANGES IN ACUTE CARDIAC OVERLOAD: STUDIES ON ADENYL CYCLASE ACTIVITY, CYCLIC 35-AMP, AND MYOSIN SYNTHESIS. Schreiber SS, Klein I, Oratz M, Evans C, Gueyikian I, Rothschild MA. *Recent Adv Stud Cardiac Struct Metab* 1: 44-58, 1972 (Eng) *DL/77FEB645

Guggenheim K

NUTRITIONAL HEALTH IN A CHANGING SOCIETY - STUDIES FROM ISRAEL. Guggenheim K, Kaufmann NA. *World Rev Nutr Diet* 24: 217-40, 1976 (Eng) [67] DL/77FEB436

ADOLESCENCE; ADULT; AGED; AGRICULTURE; ANEMIA (occurrence); CHILD; CHILD, PRESCHOOL; CORONARY DISEASE (occurrence); DIABETES MELLITUS (occurrence); ETHNIC GROUPS; FEMALE; FOOD SUPPLY; HEALTH SURVEYS; HUMAN; INFANT; ISRAEL; JEWS; MALE; MIDDLE AGE; NUTRITION DISORDERS (occurrence); NUTRITION; OBESITY; OSTEOMALACIA; OSTEOPOROSIS; PREGNANCY; REVIEW; SOCIOECONOMIC FACTORS.

Gugliucci CL

INTENSIVE CARE OF THE PREGNANT DIABETIC. Gugliucci CL, OSullivan MJ, Opperman W, Gordon M, Stone ML. *Am J Obstet Gynecol* 125: 435-41, 15 JUN 76 (Eng) DL/77FEB469

DIABETES MELLITUS (classification); DIABETIC DIET; FEMALE; HUMAN; INSULIN (biosynthesis, therapeutic use); PREGNANCY IN DIABETES (diagnosis, drug therapy, therapy); PREGNANCY.

Guillemin R

CONTROL OF ANTERIOR PITUITARY HORMONE SECRETION. HYPOTHALAMIC PEPTIDES AND THEIR INTERACTIONS. PP. 180-95. Grant G, Vale W, Brazeau P, Rivier J, Monahan M, Gilon C, Amoss M, Rivier C, Ling N, Burgus R, Guillemin R. In: *Lederis K, Cooper KE, ed. Recent studies of hypothalamic function.* Basel, Karger, 1974. WL 312 165r 1973. (Eng) [39] *DL/77FEB588

Gunter LM

CRITIQUE OF THE DEVELOPING DIABETIC IDENTITY: A STUDY OF FAMILY IN-

Diabetes Literature—Author Index

FLUENCE. Gunter LM. *Commun Nurs Res* 3: 33-40, Sep 70 (Eng) DL/77FEB57

ADOLESCENCE; ADULT; CHILD; DIABETES MELLITUS, JUVENILE; FAMILY; FEMALE; HUMAN; IDENTIFICATION (PSYCHOLOGY); MALE; SOCIAL ADJUSTMENT.

Gustafson RC

GLUCOSE TOLERANCE AND HORMONE REPLACEMENT THERAPY. A PRELIMINARY STUDY. Sturdee DW, Gustafson RC, Moore B. *Postgrad Med J* 52 SUPPL 6: 52-4, 1976 (Eng) DL/77FEB352

Gutauskas M

[EXPERIMENTAL TRANSPLANTATION OF THE PANCREAS AND DUODENUM] Gutauskas M. *Pol Przegl Chir* 48: 481-5, Apr 76 (Pol) *DL/77FEB621

ANIMAL EXPERIMENTS (analysis); DOGS; DUODENUM (transplantation); ENGLISH ABSTRACT; GRAFT REJECTION (mortality); PANCREAS (transplantation); TRANSPLANTATION IMMUNOLOGY; TRANSPLANTATION, HOMOLOGOUS (transplantation).

Gutmann W

[DIABETES MELLITUS, HEMOSTATIC FUNCTION, AND DIABETIC ANGIOPATHY] Zoller H, Gutmann W, Fahrner E, Gross W. *Med Welt* 27: 1742-3, 10 Sep 76 (Ger) DL/77FEB258

Guy-Grand B

[BLOOD LIPIDS, DIABETES AND ARTERIOSCLEROSIS] Guy-Grand B, Bigorie B, Bour H. *Rev Prat* 26: 3097-107, 11 Oct 76 (Fre) DL/77FEB382

ADULT; ARTERIOSCLEROSIS (etiology); DIABETES MELLITUS (complications); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPERLIPIDEMIA (etiology); MALE; MIDDLE AGE.

Guzdek A

THE LEVEL AND COMPOSITION OF SEROMUCOID AND NONDISSOLUBLE SERUM SUGAR-PEPTIDE FRACTION COMPARED WITH THE ACTIVITY OF GALACTOSYL TRANSFERASE (EC 2.4.1.38) OF LIVER GOLGI MEMBRANES IN INSULIN-TREATED RATS. Guzdek A, Kordowiak A, Sarnecka-Keller M. *Clin Chim Acta* 72: 393-9, 1 Nov 76 (Eng) DL/77FEB43

ANIMAL; CELL FRACTIONATION; FEMALE; GALACTOSYLTRANSFERASES (metabolism); GLYCOPOLYMER (blood, metabolism); GOLGI APPARATUS (drug effects, metabolism, ultrastructure); INSULIN (pharmacodynamics); LIVER (metabolism); MEMBRANES (drug effects, metabolism); ORGAN WEIGHT; OROSOMUCOID (metabolism); RATS.

THE INFLUENCE OF INSULIN ON THE PROPORTION OF NEUTRAL SUGARS IN SEROMUCOID OF DIABETIC PATIENTS. Guzdek A, Ciba T, Sarnecka-Keller M. *Clin Chim Acta* 72: 401-4, 1 Nov 76 (Eng) DL/77FEB44

ADULT; DIABETES MELLITUS, JUVENILE (blood, drug therapy); FEMALE; HEXOSES (blood); HUMAN; INSULIN (diagnostic use, therapeutic use); MALE; MIDDLE AGE; OROSOMUCOID (metabolism).

Gvozdzjak A

MYOCARDIAL CELL DAMAGE DUE TO ETHANOL. Gvozdzjak A, Borovic F, Bada V, Kruty F, Niederland TR, Gvozdzjak J. *Recent Adv Stud Cardiac Struct Metab* 7: 451-7, 1975 (Eng) *DL/77FEB675

ADENOSINE TRIPHOSPHATE (metabolism); ALCOHOL, ETHYL (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); GLYCOGEN (metabolism); GLYCOLYSIS (drug effects); HEART DISEASES (chemically induced, metabolism); HEART (drug effects);

MITOCHONDRIA, MUSCLE (drug effects, metabolism); MYOCARDIUM (metabolism); OXYGEN CONSUMPTION (drug effects); PHOSPHATES, INORGANIC (metabolism); PHOSPHOCREATINE (metabolism); RATS.

Gvozdzjak J

MYOCARDIAL CELL DAMAGE DUE TO ETHANOL. Gvozdzjak A, Borovic F, Bada V, Kruty F, Niederland TR, Gvozdzjak J. *Recent Adv Stud Cardiac Struct Metab* 7: 451-7, 1975 (Eng) *DL/77FEB675

Haagsma B

[FATTY LIVER IN A HOSPITAL POPULATION, 1970-1974] Haagsma B, Marck K, van der Woude FJ. *Ned Tijdschr Geneesk* 120: 1625-30, 25 Sep 76 (Dut) DL/77FEB328

ADULT; AGED; ALCOHOLISM (complications); DIABETES MELLITUS (complications); ENGLISH ABSTRACT; FATTY LIVER (etiology, occurrence); FEMALE; HUMAN; LIVER (pathology); MALE; MIDDLE AGE; NETHERLANDS.

Hackenberg K

EFFECTS OF GROWTH HORMONE RELEASE-INHIBITING HORMONE AND BROMOCRYPTINE (CB 154) IN STATES OF ABNORMAL PITUITARY-ADRENAL FUNCTION. Benker G, Hackenberg K, Hamburger B, Reinwein D. *Clin Endocrinol (Oxf)* 5: 187-90, Mar 76 (Eng) *DL/77FEB542

Hackenbrock CR

FLUIDITY IN MITOCHONDRIAL MEMBRANES: THERMOTROPIC LATERAL TRANSLATIONAL MOTION OF INTRAMEMBRANE PARTICLES. Hochli M, Hackenbrock CR. *Proc Natl Acad Sci USA* 73: 1636-40, May 76 (Eng) *DL/77FEB625

Hadley ME

METABOLIC REQUIREMENTS FOR MELANOPHORE-STIMULATING HORMONE (MSH) SECRETION. Hadley ME, Bower SA. *Gen Comp Endocrinol* 28: 118-30, Feb 76 (Eng) *DL/77FEB558

ANIMAL EXPERIMENTS (analysis); CYANIDES (pharmacodynamics); CYTOCHALASIN B (pharmacodynamics); DINITROPHENOLS (pharmacodynamics); GLUCOSE (metabolism); IN VITRO; IODOACETATES (pharmacodynamics); MALE; MSH (secretion); OLIGOMYCIN (pharmacodynamics); PITUITARY GLAND (metabolism, secretion); RANA PIPIENS; RATS; TEMPERATURE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Haffen K

[XENOTRANSPLANTATION OF FETAL ENDOCRINE PANCREATIC TISSUE. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R. *Chirurgie* 102: 690-9, 1976 (Fre) DL/77FEB61

Hagen N

[EARLY POSTNATAL OVERFEEDING AS AN ETIOLOGIC FACTOR IN ADULT OBESITY] Dörner G, Hagen N, Witthuhn W. *Acta Biol Med Ger* 35: 799-803, 1976 (Ger) DL/77FEB453

Hagerdal M

THE EFFECT OF HYPERTHERMIA UPON OXYGEN CONSUMPTION AND UPON ORGANIC PHOSPHATES, GLYCOLYTIC METABOLITES, CITRIC AND CYCLE INTERMEDIATES AND ASSOCIATED AMINO ACIDS IN RAT CEREBRAL CORTICES. Carlsson C, Hagerdal M, Siesjö BK. *J Neurochem* 26: 1001-6, May 76 (Eng) *DL/77FEB599

Diabetes Literature—Author Index

Harper RD

Hagg SA

CLINICAL USE OF ORAL HYPOLYCEMIC AGENTS. Hagg SA *Am J Hosp Pharm* 33: 943-7, Sep 76 (Eng) [60] DL/77FEB467

BIGUANIDES (pharmacodynamics); DIABETES MELLITUS (drug therapy); DRUG INTERACTIONS; HUMAN; HYPOLYCEMIC AGENTS (adverse effects, pharmacodynamics, therapeutic use); REVIEW; SULFONYLUREA COMPOUNDS (pharmacodynamics).

GLUCOSE METABOLISM IN PERFUSED SKELETAL MUSCLE. EFFECTS OF STARVATION, DIABETES, FATTY ACIDS, ACETOACETATE, INSULIN AND EXERCISE ON GLUCOSE UPTAKE AND DISPOSITION. Berger M, Hagg SA, Goodman MN, Ruderman NB *Biochem J* 158: 191-202, 15 Aug 76 (Eng) DL/77FEB504

Hague RV

GASTRIC EMPTYING OF SOLID MEALS IN DIABETICS. Scarpello JH, Barber DC, Hague RV, Cullen DR, Sladen GE *Br Med J* 2: 671-3, 18 Sep 76 (Eng) DL/77FEB22

THE 14C-GLYCOCHOLATE TEST IN DIABETIC DIARRHOEA. Scarpello JH, Hague RV, Cullen DR, Sladen GE *Br Med J* 2: 673-5, 18 Sep 76 (Eng) DL/77FEB23

Hai NV

[THE SIGNIFICANCE OF STRESS INTENSITY FOR THE EMOTIONAL AND VISCERAL REACTIVITY, ESPECIALLY FOR BLOOD PRESSURE REGULATION] Hecht K, Hai NV, Moritz V, Hecht T *Acta Biol Med Ger* 35: 23-33, 1976 (Ger) DL/77FEB448

[CORRELATIONS BETWEEN HIPPOCAMPUS FUNCTION AND STRESSED LEARNING AND THEIR EFFECT ON CEREBRO-VISCERAL REGULATION PROCESSES] Hecht K, Hai NV, Hecht T, Moritz V, Woosmann H *Acta Biol Med Ger* 35: 35-45, 1976 (Ger) DL/77FEB449

Hales CN

A RAPID IMMUNOLOGICAL PROCEDURE FOR THE ISOLATION OF HORMONALLY SENSITIVE RAT FAT-CELL PLASMA MEMBRANE. Luzzio JP, Newby AC, Hales CN *Biochem J* 154: 11-21, 15 Jan 76 (Eng) *DL/77FEB714

Hall R

EFFECTS OF GROWTH HORMONE—RELEASE INHIBITING HORMONE (GH—RIH OR SOMATOSTATIN) ON SECRETORY PROCESSES IN STOMACH AND PANCREAS. PP. 407-12. Albinus M, Case RM, Reed JD, Shaw B, Smith PA, Gomez-Pan A, Hall R, Besser GM, Schally AV *Ino Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract. Baltimore, Univ Park Press, 1976. W1 102 5859 1975. (Eng) *DL/77FEB586*

Hall RA

INSULIN LOSS IN PARENTAL NUTRITION SYSTEMS. Oh TE, Dyer H, Wall BP, Hall RA, Jellett LB *Anaesth Intensive Care* 4: 342-6, Nov 76 (Eng) DL/77FEB484

Haller K

[BEHAVIOUR OF SERUM CONCENTRATIONS OF GLUCOSE, IMMUNOREACTIVE INSULIN AND POTASSIUM IONS IN NEWBORNS AFTER LONG TERM OR CRASH TREATMENTS WITH PARTUSISTEN OR PARTUSISTEN IN COMBINATION WITH ISOPTIN (AUTHORS TRANSL.) Weidinger H, Mohr D, Haller K, Hiltmann WD, Vogel M *Z Geburtshilfe Perinatol* 180: 258-65, Aug 76 (Ger) DL/77FEB439

Hamada C

INTESTINAL ABSORPTION CHARACTERISTICS OF BUFORMIN AND PHENFOR-

MIN IN RATS. Kojima S, Tanaka R, Hamada C *Chem Pharm Bull (Tokyo)* 24: 1555-60, Jul 76 (Eng) DL/77FEB42

Hamburger B

EFFECTS OF GROWTH HORMONE RELEASE-INHIBITING HORMONE AND BROMOCRYPTINE (CB 154) IN STATES OF ABNORMAL PITUITARY-ADRENAL FUNCTION. Benker G, Hackenberg K, Hamburger B, Reinwein D *Clin Endocrinol (Oxf)* 5: 187-90, Mar 76 (Eng) *DL/77FEB542

Hamilton DV

MODE OF PRESENTATION OF JUVENILE DIABETES. Hamilton DV, Mundia SS, Lister J *Br Med J* 2: 211-2, 24 Jul 76 (Eng) DL/77FEB20

ADOLESCENCE; ADULT; CHILD, PRESCHOOL; DIABETES MELLITUS (diet therapy); DIABETES MELLITUS, JUVENILE (diagnosis); DIAGNOSTIC ERRORS; DRINKING; ENURESIS (etiology); FEMALE; GLYCOSURIA, RENAL (diagnosis); HUMAN; INFANT; MALE; POLYURIA (etiology); TIME FACTORS.

Hamilton PJ

SMOKING AND OTHER RISK FACTORS FOR CORONARY HEART-DISEASE IN BRITISH CIVIL SERVANTS. Reid DD, Hamilton PJ, McCartney P, Rose G, Jarrett RJ, Keen H *Lancet* 2: 979-84, 6 Nov 76 (Eng) DL/77FEB253

Hansard SL

EFFECT OF POTASSIUM AND HYPOMAGNESEMIA ON INSULIN IN THE BOVINE. Lentz DE, Madsen FC, Miller JK, Hansard SL *J Anim Sci* 43: 1082-7, Nov 76 (Eng) DL/77FEB154

Hanson H

[PROTEIN HYDROLYSIS BY IMMOBILIZED ENZYMES] Lasch J, Koelsch R, Roth P, Gabert A, Marquardt I, Hanson H *Acta Biol Med Ger* 35: 735-43, 1976 (Ger) DL/77FEB452

Haracic M

[STERIOD DIABETES - VERY SIGNIFICANT COMPLICATION OF IMMUNOSUPPRESSION FOLLOWING THE KIDNEY TRANSPLANTATION] Boskovic S, Haracic M *Med Arh* 30: 195-7, May-Jun 76 (Ser) DL/77FEB239

Harada E

PROGRESSIVE ENHANCEMENT IN THE SECRETORY FUNCTIONS OF THE DIGESTIVE SYSTEM OF THE RAT IN THE COURSE OF COLD ACCLIMATION. Harada E, Kanno T *J Physiol (Lond)* 260: 629-45, Sep 76 (Eng) DL/77FEB211

ACCLIMATIZATION; AMYLASE (analysis); ANIMAL; BILE (secretion); CHOLECYSTOKININ (pharmacodynamics); COLD; GASTRIC MUCOSA (secretion); INSULIN (pharmacodynamics); MALE; ORGAN WEIGHT; PANCREAS (drug effects, secretion); PANCREATIC JUICE (enzymology, secretion); PEPTIDE HYDROLASES (analysis); PROTEINS (secretion); RATS; TIME FACTORS; VAGUS NERVE (physiology).

HARADA N

ULTRASTRUCTURAL STUDIES OF HUMAN ACUTE PANCREATITIS. Taura S, Tsunoda T, Yoshino R, HARADA N, Akashi M *Gastroenterol Jpn* 10: 132-40, 1975 (Eng) DL/77FEB127

Hardy A

[HIGH RISK FACTORS OF BREAST CANCER] Hardy A, Loriaux C *J Gynecol Obstet Biol Reprod (Paris)* 5: 657-73, Jul - Aug 76 (Fre) [89] DL/77FEB177

ADOLESCENCE; ADULT; AGE FACTORS; AGED; BREAST DISEASES (complications); BREAST FEEDING; BREAST NEOPLASMS (familial & genetic, occurrence); COITUS;

DIABETES MELLITUS; ENGLISH ABSTRACT; ESTROGENS; ETHNIC GROUPS; FEMALE; HUMAN; LIFE STYLE; MARRIAGE; MATERNAL AGE; MENARCHE; MENOPAUSE; MIDDLE AGE; NUTRITION; OBESITY; PARITY; PREGNANCY; RACIAL STOCKS; REVIEW; RISK; SOCIOECONOMIC FACTORS; VIRUS DISEASES.

Hardy MA

HYPERINSULINEMIA AND HYPERGLUCAGONEMIA FOLLOWING PANCREATIC ISLET TRANSPLANTATION IN DIABETIC RATS. Weber CJ, Hardy MA, Lerner RL, Felig P, Reemtsma K *Diabetes* 25: 944-8, Oct 76 (Eng) DL/77FEB101

Hardy RN

ADRENAL AND PANCREATIC ENDOCRINE RESPONSES TO HYPOXIA IN THE CONSCIOUS CALF. Bloom SR, Edwards AV, Hardy RN, Silver M *J Physiol (Lond)* 261: 271-83, Oct 76 (Eng) DL/77FEB212

Harkonen M

PHYSICAL ACTIVITY AND HORMONES. Adlercreutz H, Harkonen M, Kuoppasalmi K, Kosunen K, Naveri H, Rehunen S *Adv Cardiol* 18: 144-57, 1976 (Eng) DL/77FEB461

LETTER: EFFECT OF ALCOHOL ON ANTERIOR-PITUITARY SECRETION OF TROPIC HORMONES. Ylikahri RH, Huttunen MO, Harkonen M *Lancet* 1: 1353, 19 Jun 76 (Eng) *DL/77FEB608

Harmon JT

IDENTIFICATION AND CHARACTERIZATION OF THE INSULIN RECEPTOR IN THE R3230AC MAMMARY ADENOCARCINOMA OF THE RAT. Harmon JT, Hilf R *Cancer Res* 36: 3993-4000, Nov 76 (Eng) DL/77FEB37

ADENOCARCINOMA (metabolism); ANIMAL; BINDING SITE; BINDING, COMPETITIVE; CELL COUNT; CENTRIFUGATION; DIABETES MELLITUS (chemically induced, metabolism); FEMALE; FILTRATION; INSULIN (metabolism, pharmacodynamics); KALLIKREIN-TRYPSIN INACTIVATOR (pharmacodynamics); MAMMARY NEOPLASMS, EXPERIMENTAL (metabolism); PHENYLMETHYLSULFONYL FLUORIDE (pharmacodynamics); RATS; RECEPTORS, INSULIN (metabolism); SERUM ALBUMIN, BOVINE (pharmacodynamics); STREPTOZOTOCIN; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .

Harms PG

CONTROL OF GONADOTROPIN AND PROLACTIN SECRETION BY HYPOTHALAMIC RELEASING AND INHIBITING HORMONES. PP. 80-9. McCann SM, Cooper K, Harms PG, Libertun C, Negro-Vilar A, Ojeda SR, Orias R, Moss RL, Fawcett CP, Krulich L, Gilon C, Amoss M, Rivier C, Ling N, Burgus R, Guillemin R *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function. Basel, Karger, 1974. W1 312 165r 1973. (Eng) *DL/77FEB589*

Harper RD

SOME ASPECTS OF FATTY ACID OXIDATION IN ISOLATED FAT-CELL MITOCHONDRIA FROM RAT. Harper RD, Saggerson ED *Biochem J* 152: 485-94, Dec 75 (Eng) *DL/77FEB11

ADENOSINE TRIPHOSPHATE; ADIPOSE TISSUE (metabolism); ANIMAL EXPERIMENTS (analysis); BICARBONATES (pharmacodynamics); CAPRYLATES (metabolism, pharmacodynamics); CARBONYL CYANIDE P-TRIFLUOROMETHOXYPHENYL-HYDRAZONE (pharmacodynamics); CARNITINE PALMITOYLTRANSFERASE (metabolism); CARNITINE (analogs & derivatives); CARNITINE (metabolism); CITRATE SYNTHASE (metabolism); COENZYME A; COMPARATIVE STUDY; DNA

Harris P

(analysis); FATTY ACIDS (metabolism); GLUTAMATE DEHYDROGENASE (metabolism); IN VITRO; MALATES (pharmacodynamics); MALE; MITOCHONDRIA (drug effects, enzymology); MITOCHONDRIA (metabolism); MITOCHONDRIA, LIVER (metabolism); MITOCHONDRIA, LIVER (enzymology); OXIDATION-REDUCTION; OXYGEN CONSUMPTION (drug effects); PYRUVATES (pharmacodynamics); RATS; STARVATION.

Harris P

THE UPTAKE OF FREE FATTY ACID IN THE RAT HEART. Harris P, Achillea M, Gloster J *Recent Adv Stud Cardiac Struct Metab* 7: 23-7, 1975 (Eng) *DL/77FEB663

ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT; CYTOSOL (metabolism); FATTY ACIDS, NONESTERIFIED (metabolism); MICROSOMES (metabolism); MITOCHONDRIA, MUSCLE (metabolism); MYOCARDIUM (metabolism); OLEIC ACIDS (metabolism); PALMITIC ACIDS (metabolism); PHOSPHOLIPIDS (biosynthesis); RATS.

THE EFFECTS OF POLYAMINES ON CARDIAC PROTEIN BIOSYNTHESIS. Gibson K, Harris P *Recent Adv Stud Cardiac Struct Metab* 7: 71-6, 1975 (Eng) *DL/77FEB678

Harrison J

INTRASLET NEGATIVE INSULIN-GLUCAGON FEEDBACK. Samols E, Harrison J *Metabolism* 25: 1443-7, Nov 76 (Eng) DL/77FEB293

REMARKABLE POTENCY OF SOMATOSTATIN AS A GLUCAGON SUPPRESSANT. Samols E, Harrison J *Metabolism* 25: 1495-7, Nov 76 (Eng) DL/77FEB307

Harrison LC

THE EFFECTS OF MAZINDOL AND 46-034 (SANDOZ) ON GLUCOSE OXIDATION AND INSULIN BINDING BY RAT ISOLATED FAT CELLS. Harrison LC, King-Roach AP *Clin Exp Pharmacol Physiol* 3: 503-6, Sep-Oct 76 (Eng) DL/77FEB46

ADIPOSE TISSUE (drug effects, enzymology, metabolism); ANIMAL; CELLS; GLUCOSE (metabolism); IN VITRO; INDOLES (pharmacodynamics); INSULIN (metabolism); IODINE RADIOISOTOPES, LACTATE DEHYDROGENASE (metabolism); MALE; MAZINDOL (analogs & derivatives, pharmacodynamics); OXIDATION-REDUCTION; RATS.

Harrover AD

DIABETIC KETOALKALOSIS [LETTER]. McIrose E, Morgan A, Harrover AD, Smith AW *Br Med J* 2: 237, 24 Jul 76 (Eng) DL/77FEB21

Hart DS

STUDIES WITH THE AUTOTRANSPLANTED OVINE PANCREAS: GLUCAGON AND INSULIN SECRETION. Arcus AC, Ellis MJ, Kirk RD, Beaven DW, Donald RA, Hart DS, Holland GW, Redekopp C *Aust J Biol Sci* 29: 223-36, Jul 76 (Eng) DL/77FEB496

Hart IC

MAMMOTROPIC HORMONES IN RUMINANTS. PP. 422-32. Forsyth IA, Hart IC *In: Peptide A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) [91] DL/77FEB184*

Harter M

DIABETIC RETINOPATHY AND PROLACTIN [LETTER]. Harter M, Balarac N, Pourcher P, Koslowski JM, Krebs B, Ramaioli A *Lancet* 2: 961-2, 30 Oct 76 (Eng) DL/77FEB248

COMPARATIVE STUDY; DIABETES MELLITUS (blood); DIABETIC RETINOPATHY

(blood); FEMALE; HUMAN; MALE; PROLACTIN (blood).

Hashimoto K

[IN VITRO ASSAY FOR ACTH-RELEASING ACTIVITY USING ACTH RADIOIMMUNOASSAY: ACTH RELEASING ACTIVITIES BY VARIOUS DRUGS (AUTHORS TRANSL.)] Hashimoto K, Takahara J, Hosogi H, Ofuji N, Yasuhara T *Folia Endocrinol Jpn* 52: 114-24, 20 Feb 76 (Jpn) DL/77FEB82

ANIMAL; ARGININE VASOPRESSIN (pharmacodynamics); CORTICOTROPIN (immunology, secretion); DOPAMINE (pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG; ENGLISH ABSTRACT; GLUCAGON (pharmacodynamics); HALOPERIDOL (pharmacodynamics); HISTAMINE (pharmacodynamics); HYDROXYTRYPTOPHAN (pharmacodynamics); HYPOTHALAMUS; IN VITRO; INDOMETHACIN (pharmacodynamics); LYSINE VASOPRESSIN (pharmacodynamics); LH-FSH RELEASING HORMONE (pharmacodynamics); MALE; NOREPINEPHRINE (pharmacodynamics); PHENTOLAMINE (pharmacodynamics); PITUITARY GLAND, ANTERIOR (secretion); PROPRANOLOL (pharmacodynamics); PROTAGLANDINS (pharmacodynamics); RABBITS; RADIOIMMUNOASSAY (methods); RATS; THYROTROPIN RELEASING HORMONE (pharmacodynamics); TISSUE EXTRACTS (pharmacodynamics).

Hasselblatt A

THE INHIBITION OF INSULIN SECRETION FROM THE PERFUSED RAT PANCREAS AFTER THYROXINE TREATMENT. Lenzen S, Joost HG, Hasselblatt A *Diabetologia* 12: 495-500, Oct 76 (Eng) DL/77FEB118

Hausmann L

[FATTY ACID PATTERNS AND GLUCOSE TOLERANCE IN HUNTINGTONS CHOREA (AUTHORS TRANSL.)] Schubotz R, Hausmann L, Kaffarnik H, Zehner J, Oepen H *Res Exp Med (Berl)* 167: 203-15, 2 Jul 76 (Ger) DL/77FEB376

Haut J

[DIABETIC RETINOPATHY] Haut J, Rousselie F *Rev Prat* 26: 3121-8, 11 Oct 76 (Fre) DL/77FEB384

DIABETIC RETINOPATHY (etiology, pathology); ENGLISH ABSTRACT; HUMAN.

Hautecouverture M

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hautecouverture M, Buneaux JJ *Diabete Metab* 1: 101-11, Jun 75 (Eng) DL/77FEB91

[PATHOGENESIS, PHYSIOPATHOLOGY, AND EPIDEMIOLOGY OF DIABETIC MICROANGIOPATHY] Hautecouverture M, Basdevant A, Slama G, Tchobrouksky G *Rev Prat* 26: 3085-93, 11 Oct 76 (Fre) DL/77FEB381

DIABETIC ANGIOPATHIES (occurrence, pathology); ENGLISH ABSTRACT; FEMALE; HUMAN; MALE.

Havrankova J

[BLOOD SUGAR AND BLOOD INSULIN AFTER A RAW OR COOKED MEAL IN CONTROL AND DIABETIC SUBJECTS] Havrankova J, Pesant P, Elie R, Matte R *Union Med Can* 105: 1147-51, Aug 76 (Fre) DL/77FEB421

ADULT; BLOOD SUGAR (analysis); DIABETES MELLITUS (blood); EATING; ENGLISH ABSTRACT; HUMAN; INSULIN (blood); MIDDLE AGE.

Haworth JC

RELATIONSHIPS BETWEEN MATERNAL GLUCOSE INTOLERANCE AND NEONATAL BLOOD GLUCOSE. Haworth JC, Dilling LA *J Pediatr* 89: 810-3, Nov 76 (Eng) DL/77FEB207

BLOOD SUGAR (analysis); FEMALE; FETAL BLOOD (analysis); GLUCOSE TOLERANCE TEST; HUMAN; HYPOGLYCEMIA (etiology); INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (etiology); INSULIN (analysis); MATERNAL-FETAL EXCHANGE; PREGNANCY IN DIABETES (blood); PREGNANCY; PROGNOSIS.

Hayes SB

A MECHANISM BY WHICH HIGH-DENSITY LIPOPROTEINS MAY SLOW THE ATHEROGENIC PROCESS. Carow TE, Koschinsky T, Hayes SB, Steinberg D *Lancet* 1: 1315-7, 19 Jun 76 (Eng) *DL/77FEB607

Haynes RC Jr

MECHANISMS OF HORMONAL CONTROL OF GLUCONEOGENESIS. Haynes RC Jr *Metabolism* 25: 1361-3, Nov 76 (Eng) DL/77FEB274

ADENOSINE TRIPHOSPHATE (pharmacodynamics); ANIMAL; ANTIMYCIN A (pharmacodynamics); GLUCAGON (pharmacodynamics); GLUCONEOGENESIS (drug effects); MAGNESIUM (metabolism); MITOCHONDRIA, LIVER (drug effects, metabolism); MITOCHONDRIAL SWELLING (drug effects); POTASSIUM (metabolism); PYRUVATES (metabolism); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Heading RC

EFFECT OF THE HISTAMINE H2-RECEPTOR ANTAGONIST, CIMETIDINE, ON GASTRIC SECRETION AND SERUM GASTRIN DURING INSULIN INFUSION IN MAN. Carter DC, Forrest JA, Logan RA, Ansell I, Lidgard G, Heading RC, Shearman DJ *Scand J Gastroenterol* 11: 565-70, 1976 (Eng) DL/77FEB393

Hecht K

[THE SIGNIFICANCE OF STRESS INTENSITY FOR THE EMOTIONAL AND VISCERAL REACTIVITY, ESPECIALLY FOR BLOOD PRESSURE REGULATION] Hecht K, Hai NV, Moritz V, Hecht T *Acta Biol Med Ger* 35: 23-33, 1976 (Ger) DL/77FEB448

ADRENAL GLANDS (pathology); ANIMAL; BLOOD SUGAR (analysis); ENGLISH ABSTRACT; HYPERTENSION (etiology); ISLANDS OF LANGERHANS (pathology); LEARNING DISORDERS (etiology); MALE; MEMORY DISORDERS (etiology); ORGAN WEIGHT; RATS; STRESS.

[CORRELATIONS BETWEEN HIPPOCAMPUS FUNCTION AND STRESSED LEARNING AND THEIR EFFECT ON CEREBRO-VISCERAL REGULATION PROCESSES] Hecht K, Hai NV, Hecht T, Moritz V, Woosmann H *Acta Biol Med Ger* 35: 35-45, 1976 (Ger) DL/77FEB449

ANIMAL; BLOOD SUGAR (analysis); CYTOPLASMIC GRANULES; ENGLISH ABSTRACT; HIPPOCAMPUS (physiology); HYPERTENSION (etiology); ISLANDS OF LANGERHANS (pathology); LEARNING; MALE; RATS; STRESS.

Hecht T

[THE SIGNIFICANCE OF STRESS INTENSITY FOR THE EMOTIONAL AND VISCERAL REACTIVITY, ESPECIALLY FOR BLOOD PRESSURE REGULATION] Hecht K, Hai NV, Moritz V, Hecht T *Acta Biol Med Ger* 35: 23-33, 1976 (Ger) DL/77FEB448

[CORRELATIONS BETWEEN HIPPOCAMPUS FUNCTION AND STRESSED LEARNING AND THEIR EFFECT ON CEREBRO-VISCERAL REGULATION PROCESSES] Hecht K, Hai NV, Hecht T, Moritz V, Woosmann H *Acta Biol Med Ger* 35: 35-45, 1976 (Ger) DL/77FEB449

Diabetes Literature—Author Index

Higgins ES

Hedekov CJ

INOSINE-STIMULATED INSULIN RELEASE AND METABOLISM OF INOSINE IN ISOLATED MOUSE PANCREATIC ISLETS. Capito K, Hedekov CJ *Biochem J* 158: 335-40, 15 Aug 76 (Eng) DL/77FEB505

Heding LG

STRUCTURE-FUNCTION RELATIONSHIP: IMMUNOLOGIC. Heding LG, Frandsen EK, Jacobsen H *Metabolism* 25: 1327-9, Nov 76 (Eng) DL/77FEB267
ANIMAL: ANTIGEN-ANTIBODY REACTIONS; CROSS REACTIONS; GLUCAGON (analogs & derivatives, immunology); IMMUNE SERUMS; INTESTINES, ISLANDS OF LANGERHANS; PEPTIDE FRAGMENTS (immunology); SPECIES SPECIFICITY; STRUCTURE-ACTIVITY RELATIONSHIP.

Hedinger C

HISTOLOGIC CHARACTERISTICS OF INSULINOMAS AND GASTRINOMAS. VALUE OF ARGYROPHILIA, METACHROMASIA, IMMUNOHISTOLOGY, AND ELECTRON MICROSCOPY FOR THE IDENTIFICATION OF GASTROINTESTINAL AND PANCREATIC ENDOCRINE CELLS AND THEIR TUMORS. Woodtli W, Hedinger C *Virchows Arch [Pathol Anat]* 371: 331-50, 7 Oct 76 (Eng) DL/77FEB425

Hedner U

EFFECT OF ETHYLOESTRENOL ON FIBRINOLYSIS IN THE VESSEL WALL. Hedner U, Nilsson IM, Isacson S *Br Med J* 2: 729-31, 25 Sep 76 (Eng) DL/77FEB24
ADULT; AGED; ETHYLESTRENOL (administration & dosage, adverse effects, therapeutic use); FEMALE; FIBRINOGEN (analysis); FIBRINOLYSIS (drug effects); HUMAN; MALE; MENSTRUATION DISORDERS (chemically induced); MIDDLE AGE; PHENFORMIN (therapeutic use); THROMBOPHLEBITIS (drug therapy); VEINS (drug effects).

Hegre OD

FETAL RAT PANCREAS IN ORGAN CULTURE. EFFECT OF CORTICOSTERONE CONCENTRATIONS ON THE ACINAR AND ISLET CELL COMPONENTS. McEvoy RC, Hegre OD, Lazarrow A *Differentiation* 6: 17-26, 16 Mar 76 (Eng) DL/77FEB125

Heier G

CYCIC AMP LEVELS IN THE ACUTELY ISCHEMIC MYOCARDIUM OF THE DOG AND GUINEA PIG. Wollenberger A, Krause G, Heier G *Recent Adv Stud Cardiac Struct Metab* 1: 27-9, 1972 (Eng) *DL/77FEB642

Heimpel H

[DRUG-INDUCED PANMYELOPATHIES] Heimpel H, Kern P *Blut* 33: 1-10, Jul 76 (Ger) [35] DL/77FEB16
ANEMIA, APLASTIC (chemically induced); CARBUTAMIDE (adverse effects); CHLORAMPHENICOL (adverse effects); DISEASES IN TWINS; DOSE-RESPONSE RELATIONSHIP, DRUG; DRUG HYPERSENSITIVITY; DRUG THERAPY (adverse effects); HEMATOPOIETIC STEM CELLS; HUMAN; PHENOTHIAZINES (adverse effects); PHENYLBUTAZONE (adverse effects); REVIEW; THYROID ANTAGONISTS (adverse effects); TIME FACTORS; VIRUS DISEASES (complications).

Heinkelmann W

[FATTY ACID PATTERN OF LIPID FRACTIONS IN THE BLOOD. II. CONTROL PERSONS] Lohninger A, Weigl K, Riedl W, Heinkelmann W, Tolle W, Schlag G, Landauer ts, Blumel G *Med Welt* 27: 923-6, 7 May 76 (Ger) *DL/77FEB609

Heinze E

HUMAN C-PEPTIDE. PART II: CLINICAL STUDIES. Beischer W, Heinze E, Keller L, Raptis S, Kerner W, Pfeiffer EF *Klin Wochenschr* 54: 717-25, 1 Aug 76 (Eng) DL/77FEB228

Helderman JH

EFFECTS OF ARTERIAL VERSUS VENOUS SAMPLING ON ANALYSIS OF GLUCOSE KINETICS IN MAN. McGuire EA, Helderman JH, Tobin JD, Andres R, Berman M *Biochem J* 157: 565-73, 1 Sep 76 (Eng) DL/77FEB500

Helinski DR

SMALL CIRCULAR DNA IN DROSOPHILA MELANOGASTER. Stanfield S, Helinski DR *Cell* 9: 333-45, Oct 76 (Eng) DL/77FEB41

Heller H

[POSSIBLE SOURCES OF ERROR IN FALSE EXAMINATION RESULTS DURING THE USE OF BIOPHAN-G-TEST-STRIPS] Heller H, Endres A *Z Aerzt Fortbild (Jena)* 70: 946-9, 1 Sep 76 (Ger) DL/77FEB438
CATALASE (urine); DIABETES MELLITUS (diagnosis, urine); DIAGNOSTIC ERRORS; FALSE NEGATIVE REACTIONS; FALSE POSITIVE REACTIONS; HUMAN; INDICATORS AND REAGENTS (adverse effects); KIDNEY DISEASES (diagnosis, urine); REAGENT STRIPS (adverse effects).

Henderson AH

INFLUENCE OF FREE FATTY ACIDS ON MYOCARDIAL MECHANICS AND OXYGEN CONSUMPTION IN RAT PAPILLARY MUSCLES AND PERFUSED HEARTS, UNDER OXYGENATED AND HYPOXIC CONDITIONS. Henderson AH, Sonnenblick EH *Recent Adv Stud Cardiac Struct Metab* 1: 147-62, 1972 (Eng) *DL/77FEB636

AEROBIOSIS; ANIMAL EXPERIMENTS (analysis); ANOXIA (drug therapy, metabolism, physiopathology); CAPRYLATES (pharmacodynamics); GLUCOSE (pharmacodynamics); HEART (drug effects, physiology); LINOLEIC ACIDS (pharmacodynamics); MYOCARDIAL CONTRACTION (drug effects); MYOCARDIUM (metabolism); OXYGEN CONSUMPTION (drug effects); PAPILLARY MUSCLES (metabolism); RATS.

Henderson MJ

EFFECTS OF IODOACETATE AND FLUORIDE ON ISLATE RESPIRATION AND INSULIN BIOSYNTHESIS. Lin BJ, Henderson MJ, Levine BB, Nagy BR, Nagy EM *Horm Metab Res* 8: 353-8, Sep 76 (Eng) DL/77FEB141

Heninger G

STRESS-INDUCED GROWTH HORMONE RELEASE: PSYCHOLOGIC AND PHYSIOLOGIC CORRELATES. Brown WA, Heninger G *Psychosom Med* 38: 145-7, Mar-Apr 76 (Eng) *DL/77FEB630

Herchuelz A

INSULIN RELEASE AND THE MOVEMENTS OF CALCIUM IN PANCREATIC ISLETS. PP. 211-26. Malaisse WJ, Herchuelz A, Levy J, Somers G, Devis G *Ino Carafoli E, et al., ed. Calcium transport in contraction and secretion. Amsterdam, North-Holland, 1975. QV 276 16tc 1975.* (Eng) DL/77FEB179

Herington AC

REGULATION OF SOMATOMEDIN GENERATION. PP. 169-77. Daughaday WH, Phillips LS, Herington AC *Ino Picole A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975.* (Eng) DL/77FEB188

Herman G

DISCUSSION PAPER ON CHOLINERGIC REGULATION OF GLYCOGENOLYSIS AND PROTEIN SECRETION IN RAT SALIVARY GLANDS. PP. 295-6. Rössigol B, Herman G, Keryer G, Chambaut-Guerin AM, Ovtracht L, Busson S, Brown EM, Fedak SA, Woodard CJ, Aurbach GD *Ino Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract. Baltimore, Univ Park Press, 1976. W1 102 S859 1975.* (Eng) *DL/77FEB585

Herndon JH

MALIGNANT ATROPHIC PAPULOSIS OF DEGOS. REPORT OF A PATIENT WHO FAILED TO RESPOND TO FIBRINOLYTIC THERAPY. Howdsen SM, Hodge SJ, Herndon JH, Freeman RG *Arch Dermatol* 112: 1582-8, Nov 76 (Eng) [61] DL/77FEB490

Hernell O

EFFECT OF ETHANOL ON THE ACTIVITY OF LIPOPROTEIN LIPASE IN ADIPOSE TISSUE OF MALE AND FEMALE RATS. Johnson O, Hernell O *Nutr Metab* 19: 41-4, 1975 (Eng) *DL/77FEB616

Herrera E

THE EFFECT OF GLUCOSE, INSULIN AND ADRENALINE ON GLYCEROL METABOLISM IN VITRO IN RAT ADIPOSE TISSUE. Dominguez MC, Herrera E *Biochem J* 158: 183-90, 15 Aug 76 (Eng) DL/77FEB503

Herzberg M

WEIGHT LOSS IN PATIENTS TREATED LONG-TERM WITH LEVODOPA. METABOLIC ASPECTS. Vardi J, Oberman Z, Rabey I, Streifler M, Ayalon D, Herzberg M *J Neurol Sci* 30: 33-40, Nov 76 (Eng) DL/77FEB201

Heugel E

EFFECT ON MYOCARDIAL METABOLIC PATTERN OF LOCAL COMPLETE AND INCOMPLETE ISCHEMIA. Isselhard W, Geppert E, Menge M, Lauterjung KL, Vogel W, Witte J, Heugel E *Recent Adv Stud Cardiac Struct Metab* 7: 231-6, 1975 (Eng) *DL/77FEB664

Hibbard LT

MATERNAL MORTALITY IN DIABETES MELLITUS: AN 18-YEAR SURVEY. Gabbe SG, Mestman JH, Hibbard LT *Obstet Gynecol* 48: 549-51, Nov 76 (Eng) DL/77FEB331

Hicks M

PREPARATION AND PROPERTIES OF VESICLES ENCLOSED BY FATTY ACID MEMBRANES. Gebicki JM, Hicks M *Chem Phys Lipids* 16: 142-60, Mar 76 (Eng) *DL/77FEB534

Higgins ES

MITOCHONDRIAL FUNCTIONAL CHANGES DURING HEPATIC HYPERPLASIA AND AZO DYE CARCINOGENESIS. Higgins ES, Rogers KS, Marks PA *Chem Biol Interact* 13: 295-305, Jun 76 (Eng) *DL/77FEB532
ADENOSINE TRIPHOSPHATASE (metabolism); ANIMAL EXPERIMENTS (analysis); AZO COMPOUNDS (pharmacodynamics); CARCINOGENS; HEPATOMA (chemically induced, metabolism); HYPERPLASIA (metabolism); LIVER DISEASES (metabolism); LIVER REGENERATION (drug effects); MALE; MITOCHONDRIA, LIVER (metabolism); MITOCHONDRIAL CONTRACTION (drug effects); MITOCHONDRIAL SWELLING (drug effects); NEOPLASMS, EXPERIMENTAL (chemically induced, metabolism); OXYGEN CONSUMPTION (drug effects); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .

Hildmann W

Hildmann W

CLINICAL AND METABOLIC STUDIES IN CHILDREN OF DIABETIC-MOTHERS. Amendt P, Michaelis D, Hildmann W *Endokrinologie* 67: 351-61, 1976 (Eng) DL/77FEB70

Hill R

IDENTIFICATION AND CHARACTERIZATION OF THE INSULIN RECEPTOR IN THE R3230AC MAMMARY ADENOCARCINOMA OF THE RAT. Harmon JT, Hill R *Cancer Res* 36: 3993-4000, Nov 76 (Eng) DL/77FEB37

Hill DM

INFLUENCE OF CHRONIC THYROTROPIN-RELEASING HORMONE INJECTIONS ON SECRETION OF PROLACTIN, THYROTROPIN AND GROWTH HORMONE AND ON GROWTH RATE IN WETHER LAMBS. Davis SL, Hill DM, Ohlson DL, Jacobs JA *J Anim Sci* 42: 1244-50, May 76 (Eng) *DL/77FEB56

Hill RL

THE KINETIC MECHANISM OF BOVINE MILK GALACTOSYLTRANSFERASE. THE ROLE OF ALPHA-LACTALBUMIN. Bell JE, Beyer TA, Hill RL *J Biol Chem* 251: 3003-13, 25 May 76 (Eng) *DL/77FEB571

Hillenbink M

[THE INFLUENCE OF CORTISOL TREATMENT ON THE DEVELOPMENT OF DIABETIC CATARACTS IN RATS (AUTHORS TRANSL)] Koch HR, Hillenbink M, Liappis N *Albrecht von Graefes Arch Klin Ophthalmol* 200: 211-22, 1976 (Ger) DL/77FEB482

Hiltmann WD

[BEHAVIOUR OF SERUM CONCENTRATIONS OF GLUCOSE, IMMUNOREACTIVE INSULIN AND POTASSIUM IONS IN NEWBORNS AFTER LONG TERM OR CRASH TREATMENTS WITH PARTUSISTEN OR PARTUSISTEN IN COMBINATION WITH ISOPTIN (AUTHORS TRANSL)] Weidinger H, Mohr D, Haller K, Hiltmann WD, Vogel M *Z Geburtshilfe Perinatol* 180: 258-65, Aug 76 (Ger) DL/77FEB439

Huira M

KINETICS OF PROTEIN SYNTHESIS AND RELEASE IN THE STH-CELL OF THE MOUSE ANTERIOR PITUITARY AS REVEALED BY ELECTRON MICROSCOPIC AUTORADIOGRAPHY OF 3H-AMINO ACIDS. Huira M, Komatsu M, Fujita H *Arch Histol Jpn* 38: 347-57, Feb 76 (Eng) *DL/77FEB709

AMINO ACIDS (metabolism); ANIMAL EXPERIMENTS (analysis); GOLGI APPARATUS (ultrastructure); HISTOCYTOCHEMISTRY; MALE; MICE; PITUITARY GLAND (metabolism); PITUITARY GLAND, ANTERIOR (metabolism); PITUITARY GLAND, ANTERIOR (ultrastructure); PROTEINS (metabolism); SOMATOTROPIN (secretion).

Hjalmarson AC

FACTORS CONTROLLING PROTEIN SYNTHESIS IN HEART MUSCLE. Hjalmarson AC, Isaksson O, Kallfelt BJ *Adv Cardiol* 18: 57-80, 1976 (Eng) DL/77FEB463

AMINO ACIDS (metabolism); PHARMACODYNAMICS; ANIMAL; HORMONES (pharmacodynamics); HYPOPHYSECTOMY; INSULIN (pharmacodynamics); MODELS, BIOLOGICAL; MUSCLE PROTEINS (biosynthesis, metabolism); MYOCARDIUM (metabolism); NUCLEOTIDES (metabolism); PALMITATES (pharmacodynamics); PERFUSION; PHENYLALANINE (metabolism); RATS.

Ho R

INFLUENCE ON ADIPOCYTE PLASMA MEMBRANE BOUND PROTEIN KINASE BY FEEDBACK REGULATOR. Ho R, Russell T, Asakawa T, Snyder RP *J Cyclic Nucleotide Res* 1: 349-58, 1975 (Eng) *DL/77FEB580

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ADENYL CYCLASE (metabolism); ADIPOSE TISSUE (drug effects, enzymology); ANIMAL EXPERIMENTS (analysis); BINDING SITES; CELL MEMBRANE (drug effects, enzymology); COMPARATIVE STUDY; ENZYME ACTIVATION (drug effects); EPINEPHRINE (pharmacodynamics); FEEDBACK; FLUORIDES (pharmacodynamics); KINETICS; MAGNESIUM (pharmacodynamics); PHOSPHODIESTERASES (metabolism); PROTEIN BINDING; PROTEIN KINASE (metabolism); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.; 3,5-CYCLOC AMP PHOSPHODIESTERASE (metabolism).

Hoa DH

BIOLOGIC ACTIVITY AND CONFORMATIONAL PROPERTIES OF GLUCAGON AND GLUCAGON ANALOGS. Epand RM, Cote TE, Hoa DH, Rosselin G, Schreier S *Metabolism* 25: 1317-8, Nov 76 (Eng) DL/77FEB264

Hochli M

FLUIDITY IN MITOCHONDRIAL MEMBRANES: THERMOTROPIC LATERAL TRANSLATIONAL MOTION OF INTRAMEMBRANE PARTICLES. Hochli M, Hackenbrock CR *Proc Natl Acad Sci USA* 73: 1636-40, May 76 (Eng) *DL/77FEB625

ANIMAL EXPERIMENTS (analysis); FREEZE FRACTURING; MALE; MEMBRANES (physiology, ultrastructure); MITOCHONDRIA, LIVER (ultrastructure); MOTION; OXIDATIVE PHOSPHORYLATION; RATS; TEMPERATURE; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Hodge SJ

MALIGNANT ATROPHIC PAPULOSIS OF DEGOS. REPORT OF A PATIENT WHO FAILED TO RESPOND TO FIBRINOLYTIC THERAPY. Howden SM, Hodge SJ, Herndon JH, Freeman RG *Arch Dermatol* 112: 1582-8, Nov 76 (Eng) [61] DL/77FEB490

Hodson ME

MECONIUM ILEUS EQUIVALENT IN ADULTS WITH CYSTIC FIBROSIS OF PANCREAS: A REPORT OF SIX CASES. Hodson ME, Mearns MB, Batten JC *Br Med J* 2: 790-1, 2 Oct 76 (Eng) DL/77FEB27

ACETYLCYSTEINE (therapeutic use); ADOLESCENCE; ADULT; CASE REPORT; COLON (radiography); CYSTIC FIBROSIS (complications); DIABETES MELLITUS (complications); ENEMA; FEMALE; HUMAN; INTESTINAL OBSTRUCTION (drug therapy, etiology, surgery); INTESTINE, SMALL (radiography, surgery); MALE.

Hoet JJ

PLASMA CONCENTRATIONS OF UNCONJUGATED ESTRONE, ESTRADIOL-17BETA AND ESTRIOL, AND HCS THROUGHOUT PREGNANCY IN DIABETICS AND GESTATIONAL DIABETICS. De Hertogh R, Thomas K, Hoet JJ, Vanderheyden I *Diabetologia* 12: 455-61, Oct 76 (Eng) DL/77FEB114

[INSULIN-DEPENDENT DIABETES DURING THE THIRD LIFE-PERIOD] Hoet JJ *Probl Actuels Endocrinol Nutr* 17: 185-91, 1973 (Fre) DL/77FEB356

ADOLESCENCE; ADULT; AGED; AGING; CATARACT (etiology); CHILD; COMPARATIVE STUDY; DIABETES MELLITUS (complications, drug therapy);

DIABETIC COMA; HUMAN; HYPOGLYCEMIA; INSULIN (therapeutic use); MIDDLE AGE.

Hofer M

[TRANSPORT AND UTILIZATION OF ALDITOLS IN THE YEAST RHODOTORULA GRACILIS GLUTINIS (AUTHORS TRANSL)] Kloppe R, Hofer M *Arch Microbiol* 107: 329-34, 1 Apr 76 (Ger) *DL/77FEB706

[TRANSPORT AND UTILIZATION OF ALDITOLS IN THE YEAST RHODOTORULA GRACILIS GLUTINIS (AUTHORS TRANSL)] Kloppe R, Hofer M *Arch Microbiol* 107: 335-42, 1 Apr 76 (Ger) *DL/77FEB707

Hoffman PG

REGULATION OF SECRETION FROM THE ADRENAL MEDULLA. EVIDENCE FOR ADENYLATE CYCLASE ACTIVITY IN SECRETORY VESICLE MEMBRANES. Zinder O, Nikojevich O, Hoffman PG, Pollard HB *J Biol Chem* 241: 2179-81, 10 Apr 76 (Eng) *DL/77FEB569

Hofmann F

STUDIES ON UREA SYNTHESIS, INSULIN DEGRADATION AND PHAGOCYTOSIS BY ISOLATED RAT KUPFFER CELLS. Wagle SR, Hofmann F, Decker K *Biochem Biophys Res Commun* 72: 448-55, 20 SEP 76 (Eng) DL/77FEB509

Hojvat S

SALIVARY GLAND GLUCAGON IN MAN AND ANIMALS. Lawrence AM, Tan S, Hojvat S, Kirsteins L, Mitton J *Metabolism* 25: 1405-8, Nov 76 (Eng) DL/77FEB284

Hokfelt T

SOMATOSTATIN, A HORMONE OF THE ALPHA I-CELLS OF THE PANCREATIC ISLETS AND ITS INFLUENCE ON THE SECRETION OF INSULIN AND GLUCAGON. PP. 216-21. Efendic S, Hokfelt T, Luft R *In: Peptide A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB190*

Holder G

LUTEINIZING RELEASE HORMONE TESTS IN IMPOTENT DIABETIC MALES. Wright AD, London DR, Holder G, Williams JW, Rudd BT *Diabetes* 25: 975-7, Oct 76 (Eng) DL/77FEB106

A STUDY OF PITUITARY FUNCTION IN PATIENTS WITH IDIOPATHIC HEMOCHROMATOSIS. Walsh CH, Wright AD, Williams JW, Holder G *J Clin Endocrinol Metab* 43: 866-72, Oct 76 (Eng) DL/77FEB169

Holec V

INFLUENCE OF ASSISTED CIRCULATION ON CARDIAC METABOLISM. Ziegelhoffer A, Siska K, Holec V, Fedelesova M, Frollo I *Recent Adv Stud Cardiac Struct Metab* 1: 484-91, 1972 (Eng) *DL/77FEB646

Holland GW

STUDIES WITH THE AUTOTRANSPLANTED OVINE PANCREAS: GLUCAGON AND INSULIN SECRETION. Arcus AC, Ellis MJ, Kirk RD, Beaven DW, Donald RA, Hart DS, Holland GW, Redekopp C *Aust J Biol Sci* 29: 223-36, Jul 76 (Eng) DL/77FEB496

Hollenberg CH

MYOCARDIAL METABOLISM IN EXPERIMENTAL CARDIOGENIC SHOCK. Cronin RF, Zsoter T, Hollenberg CH *Recent Adv Stud Cardiac Struct Metab* 1: 95-100, 1972 (Eng) *DL/77FEB656

Diabetes Literature—Author Index

Hubner G

Holister LE

PHARMACOLOGY OF LYSERGIC ACID DIETHYLAMIDE (LSD) IN MAN. PP. 173-83. Holister LE In *Radouco-Thomas S, ed. Pharmacologie, toxicologie, et abus des psychotomimetiques (hallucinogenes)*. Quebec, Les Presses de l'Universite Laval, 1974. QV 109 L392p 1973. (Eng) [25] *DL/77FEB592

ELECTROENCEPHALOGRAPHY; EMOTIONS (drug effects); FATTY ACIDS, NONESTERIFIED (metabolism); GLUCOSE (metabolism); HALLUCINOGENS (pharmacodynamics); HUMAN; LYSERGIC ACID DIETHYLAMIDE (analogs & derivatives, metabolism, pharmacodynamics); MONOGRAPH (mortality); MOTOR SKILLS (drug effects); PERCEPTION (drug effects); PHOSPHATES, INORGANIC (metabolism); PUPIL (drug effects); REFLEX (drug effects); REVIEW.

Holmes J

PREMATURE ERUPTION AND MACRODON-TIA ASSOCIATED WITH INSULIN RESISTANT DIABETES AND PINEAL HYPERPLASIA. REPORT OF TWO CASES. Holmes J, Tanner MS *Br Dent J* 141: 280-4, 2 Nov 76 (Eng) DL/77FEB4

CASE REPORT; CHILD; CHILD, PRESCHOOL; DENTAL CARIES (complications); DIABETES MELLITUS (complications); FEMALE; GINGIVITIS (pathology); HUMAN; HYPERPLASIA (complications); INFANT; INSULIN; MALE; PINEAL BODY; TONGUE, FISSION (complications); TOOTH ABNORMALITIES (complications); TOOTH ERUPTION.

Holsinger JW Jr

TRANSMURAL GRADIENTS IN THE ISCHEMIC DOG LEFT VENTRICLE: METABOLISM OF ENDOGENOUS TRIGLYCERIDES AND GLYCOGEN. Crass MF 3d, Holsinger JW Jr, Shipp JC, Eliot RS, Pieper GM *Recent Adv Stud Cardiac Struct Metab* 7: 225-30, 1975 (Eng) *DL/77FEB662

Hommel G

[THE GLYCOGEN CONTENT OF BLOOD AND UTERINE TISSUE IN WOMEN WITH MYOMA AND ENDOMETRIOSIS (AUTHORS TRANSL)] Muck BR, Hommel G *Arch Gynaekol* 221: 129-37, 17 Sep 76 (Ger) DL/77FEB493

Honikel KO

STUDIES ON ALLOSTERIC PHENOMENA IN GLYCOGEN PHOSPHORYLASE B. Madsen NB, Avramovic-Zikic O, Lue PF, Honikel KO *Mol Cell Biochem* 11: 35-50, 26 Mar 76 (Eng) [59] *DL/77FEB613

Honjo I

CHANGES IN CARBOHYDRATE METABOLISM AND ENDOCRINE FUNCTION OF REMNANT PANCREAS AFTER MAJOR PANCREATIC RESECTION. Yasugi H, Mizumoto R, Sakurai H, Honjo I *Am J Surg* 132: 577-80, Nov 76 (Eng) DL/77FEB477

Honjo S

ORAL GLUCOSE TOLERANCE TEST IN THE CYNOMOLGUS MONKEY (MACACA FASCICULARIS). Honjo S, Kondo Y, Cho F *Lab Anim Sci* 26: 771-6, Oct 76 (Eng) DL/77FEB231

ANIMAL; BLOOD SUGAR (analysis); CYNOMOLGUS MONKEYS (blood); FEMALE; GLUCOSE TOLERANCE TEST (veterinary); MACACA (blood); MONKEYS.

Horak E

EFFECTS OF TRIETHYLENETETRAMINE UPON THE METABOLISM AND TOXICITY OF 63N1C12 IN RATS. Sunderman FW Jr, Kasprzak K, Horak E, Gitlitz P, Onkelinx C *Toxicol Appl Pharmacol* 38: 177-88, Oct 76 (Eng) DL/77FEB414

Horlor M

THE USE OF FICOLL IN THE SEPARATION OF VIABLE ISLETS OF LANGERHANS FROM THE RAT PANCREAS. Nash JR, Horlor M, Bell PR *Transplantation* 22: 411-2, Oct 76 (Eng) DL/77FEB415

Horn DB

PLASMA RENIN ACTIVITY IN DIABETIC AUTONOMIC NEUROPATHY. Campbell IW, Ewing DJ, Anderton JL, Thompson JH, Horn DB, Clarke BF *Eur J Clin Invest* 6: 381-5, 10 Sep 76 (Eng) DL/77FEB73

Horning EC

GAS CHROMATOGRAPHIC STUDY OF FREE POLYOLS AND ALDOSES IN CATARACTOUS HUMAN LENS TISSUE. Pfaffenberger CD, Szafrancik J, Horning EC *J Chromatogr* 126: 535-45, 3 Nov 76 (Eng) DL/77FEB164

Horse J

LIPID METABOLISM AND ISCHAEMIC HEART DISEASE IN THE ELDERLY. Horse J, Livesley B *Age Ageing* 5: 75-83, May 76 (Eng) *DL/77FEB699

ADULT; AGED; AGING; CHOLESTEROL (blood, metabolism); CORONARY DISEASE (etiology, metabolism); FEMALE; HUMAN; HYPERLIPIDEMIA (classification, metabolism); LIPIDS (metabolism); LIPOPROTEINS (classification, metabolism); MALE; MIDDLE AGE; TRIGLYCERIDES (blood).

Hosogi H

[IN VITRO ASSAY FOR ACTH-RELEASING ACTIVITY USING ACTH RADIOIMMUNOASSAY: ACTH RELEASING ACTIVITIES BY VARIOUS DRUGS (AUTHORS TRANSL)] Hashimoto K, Takahara J, Hosogi H, Ofuji N, Yasuhara T *Folia Endocrinol Jpn* 52: 114-24, 20 Feb 76 (Jpn) DL/77FEB82

Hotta N

LIPOLYSIS AS A FUNCTION OF CELL NUMBERS AND FAT CONTENT: COMPARISON BETWEEN ISOLATED RAT AND DOG ADIPOCYTES. Hotta N, Sirek OV, Sirek A, Policova Z, Pahlavi Med J 7: 167-79, Apr 76 (Eng) *DL/77FEB618

ABDOMINAL WALL (analysis, cytology); ANIMAL EXPERIMENTS (analysis); BODY WEIGHT; COMPARATIVE STUDY; DIHYDROERGOTAMINE (pharmacodynamics); DOGS; EPIDIDY MIS (analysis, cytology); EPINEPHRINE (pharmacodynamics); FATTY ACIDS (analysis); GLYCERIN (analysis); LIPID MOBILIZATION; LIPIDS (metabolism); MALE; MAST CELLS (physiology); RATS; STIMULATION, CHEMICAL.

Howard AN

THE BABOON IN ATHEROSCLEROSIS RESEARCH: COMPARISON WITH OTHER SPECIES AND USE IN TESTING DRUGS AFFECTING LIPID METABOLISM. Howard AN *Adv Exp Med Biol* 67: 77-87, 1976 (Eng) *DL/77FEB698

ANIMAL EXPERIMENTS (analysis); ANTIGENS (administration & dosage); ARTERIES (enzymology, pathology); ARTERIOSCLEROSIS (metabolism); ATHEROSCLEROSIS (metabolism); BABOONS (metabolism); CHOLESTEROL (blood); CHOLESTEROL, DIETARY (metabolism); COMPARATIVE STUDY; DIET, ATHEROGENIC; DISEASE MODELS, ANIMAL; HYPERCHOLESTEREMIA (etiology); LIPIDS (metabolism); PHARMACOLOGY; PHOSPHATIDYL CHOLINE (pharmacodynamics); RABBITS (metabolism).

Howard BR

THE EFFECT OF CHANGES IN BLOOD GLUCOSE ON THE MOTILITY OF THE

DUODENUM IN SHEEP. Mostaghni K, Howard BR *Cornell Vet* 66: 598-603, Oct 76 (Eng) DL/77FEB59

Howard RJ

SPECIAL PROBLEMS IN DIABETIC RENAL TRANSPLANTATION. Simmons RL, Payne WD, Sutherland DE, Howard RJ, Goetz FC, Barbosa J, Kjellstrand CM, Najarian JS *Urol Clin North Am* 3: 691-9, Oct 76 (Eng) DL/77FEB424

Howsden SM

MALIGNANT ATROPHIC PAPULOSIS OF DEGOS. REPORT OF A PATIENT WHO FAILED TO RESPOND TO FIBRINOLYTIC THERAPY. Howsden SM, Hodge SJ, Herndon JH, Freeman RG *Arch Dermatol* 112: 1582-8, Nov 76 (Eng) [61] DL/77FEB490

ADULT; ETHYLESTRENOL (therapeutic use); FIBRINOLYTIC AGENTS (therapeutic use); HUMAN; MALE; PHENFORMIN (therapeutic use); REVIEW; SKIN DISEASES (drug therapy, mortality); SKIN (blood supply); SYNDROME; THROMBOSIS (drug therapy).

Hruby VJ

SEMI-SYNTHETIC GLUCAGON DERIVATIVES FOR STRUCTURE-FUNCTION STUDIES. Hruby VJ, Wright DE, Lin MC, Rodbell M *Metabolism* 25: 1323-5, Nov 76 (Eng) DL/77FEB266

ADENYL CYCLASE (metabolism); ANIMAL; CELL MEMBRANE (metabolism); CYANOGEN BROMIDE; GLUCAGON (analogs & derivatives, metabolism, pharmacodynamics); LIVER (drug effects, metabolism); RATS; RECEPTORS, HORMONE; STRUCTURE-ACTIVITY RELATIONSHIP; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Hrycek A

[HORMONAL DISORDERS IN A PATIENT WITH MORGAGNI-MOREL-STEWART SYNDROME] Hrycek A, Kubek A, Grabski J, Kalina Z *Wiad Lek* 29: 1673-6, 15 Sep 76 (Pol) DL/77FEB432

CASE REPORT; ENGLISH ABSTRACT; ESTROGENS (urine); FEEDBACK; FEMALE; HUMAN; HYPEROSTOSIS FRONTALIS INTERNA (physiopathology); HYPOTHALAMOHYPOPHYSEAL SYSTEM (physiopathology); INSULIN (blood); MIDDLE AGE.

Huamonte FU

ELEVATION OF INTRAOCULAR PRESSURE AFTER PARS PLANA VITRECTOMY. Weinberg RS, Peyman GA, Huamonte FU *Albrecht von Graefes Arch Klin Ophthalmol* 200: 157-61, 30 Aug 76 (Eng) DL/77FEB479

Huang L

MECHANISM OF MALEIC ACID-INDUCED GLUCOSURIA IN DOG KIDNEY. Silverman M, Huang L *Am J Physiol* 231: 1024-32, Oct 76 (Eng) DL/77FEB472

Hubner G

[THE BEHAVIOR OF LIPOPROTEINS, CHOLESTEROL, TRIGLYCERIDES, FREE FATTY ACIDS AND FREE GLYCEROL IN SERUM OF RATS WITH EXPERIMENTAL HYPERTHYROXINEMIA AND HYPOTHYREOSIS] Hubner G, Renner K, Rauer G *Endokrinologie* 67: 60-6, Mar 67 (Ger) *DL/77FEB548

ANIMAL EXPERIMENTS (analysis); CHOLESTEROL (blood); ENGLISH ABSTRACT; FATTY ACIDS, NONESTERIFIED (blood); GLYCERIN (blood); HYPOTHYROIDISM (blood); LIPIDS (blood); LIPOPROTEINS (blood); MALE; RATS; THYROID DISEASES (blood); THYROXINE (blood); TRIGLYCERIDES (blood).

Huen A

Huen A

HETEROGENEITY OF PLASMA GLUCAGON IN MAN. Jaspán JB, Kuku SF, Locker JD, Huen A, Emmanuel DS, Katz AI, Rubenstein AH *Metabolism* 25: 1397-401, Nov 76 (Eng) DL/77FEB282

Hughes-Davies DI

CHEMICAL LUMBAR SYMPATHECTOMY. Hughes-Davies DI, Redman LR *Anaesthesia* 31: 1068-75, Oct 76 (Eng) DL/77FEB483
AGE FACTORS; AGED; AMPUTATION; ARTERIOSCLEROSIS (therapy); BODY TEMPERATURE; DIABETES MELLITUS (complications); FEMALE; FOLLOW-UP STUDIES; FOOT (blood supply); HUMAN; INTERMITTENT CLAUDICATION (therapy); ISCHEMIA (therapy); LUMBOSACRAL REGION; MALE; MIDDLE AGE; PHENOLS; SYMPATHECTOMY (methods); SYMPATHETIC NERVOUS SYSTEM (drug effects).

Hull FE

BETA-HYDROXY FATTY ACID PRODUCTION DURING FATTY ACID OXIDATION BY HEART MITOCHONDRIA. Hull FE, Radloff JF, Sweetley CC *Recent Adv Stud Cardiac Struct Metab* 7: 13-21, 1975 (Eng) *DL/77FEB657
ANIMAL EXPERIMENTS (analysis); FATTY ACIDS (metabolism); HYDROXY ACIDS (metabolism); MALATES (pharmacodynamics); MASS FRAGMENTOGRAPHY; MITOCHONDRIA, MUSCLE (drug effects, metabolism); MYOCARDIUM (metabolism); RABBITS; ROTENONE (pharmacodynamics); SPECTRUM ANALYSIS, MASS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Hulse M

SERUM LIPID CHANGES DURING CONTRACEPTIVE ADMINISTRATION IN OBESE WOMEN: RELATION TO SERUM INSULIN LEVELS. Gershberg H, Hulse M, Galler M *J Clin Endocrinol Metab* 43: 861-5, Oct 76 (Eng) DL/77FEB168

Hulsmann WC

CYCLIC NUCLEOTIDE-, PYRUVATE- AND HORMONE-INDUCED CHANGES IN PYRUVATE KINASE ACTIVITY IN ISOLATED RAT HEPATOCYTES. van Berkel TJ, Kruijff JK, Koster JF, Hulsmann WC *Biochem Biophys Res Commun* 72: 917-25, 4 Oct 76 (Eng) DL/77FEB511

Huseman CA

HUMAN GROWTH HORMONE CHANGES WITH AGE. PP. 261-70. Bazzarre TL, Johanson AJ, Huseman CA, Varma MM, Blizzard RM *Inf Pedic A, Muller EE, ed. Growth hormone and related peptides.* Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB182

Huttunen MO

LETTER: EFFECT OF ALCOHOL ON ANTERIOR-PITUITARY SECRETION OF TROPIC HORMONES. Ylikahri RH, Huttunen MO, Harkonen M *Lancet* 1: 1353, 19 Jun 76 (Eng) *DL/77FEB608

Ianuzzo CD

DECAY OF SUCCINATE DEHYDROGENASE ACTIVITY IN RAT SKELETAL MUSCLE FOLLOWING STREPTOZOTOCIN INJECTION. Armstrong RB, Ianuzzo CD *Horm Metab Res* 8: 392-4, Sep 76 (Eng) DL/77FEB146

Ichihara A

INDUCTION OF ORNITHINE DECARBOXYLASE IN CULTURED MOUSE L CELLS. I. EFFECTS OF CELLULAR GROWTH, HORMONES, AND ACTINOMYCIN D. Yamasaki Y, Ichihara A *J Biochem (Tokyo)* 80: 557-62, Sep 76 (Eng) DL/77FEB157

Ikeda M

IMPAIRED PLASMA INSULIN RESPONSE TO ARGININE IN HYPERTHYROIDISM. IMPORTANT ROLE OF THE RISE OF BLOOD GLUCOSE IN THE SECOND PHASE OF INSULIN RELEASE INDUCED BY ARGININE. Imura H, Seino Y, Ikeda M, Taminato T, Miyamoto Y *Diabetes* 25: 961-8, Oct 76 (Eng) DL/77FEB104

Ikeda S

MECHANISM OF INHIBITION OF CHOLESTEROL UPTAKE BY THE ARTERIAL WALL. Bing RJ, Sarma JSM, Fischer R, Ikeda S *Adv Exp Med Biol* 67: 419-435, 1976 (Eng) *DL/77FEB697

Iljin VS

[ANTAGONISM IN THE ACTION OF HYDROCORTISONE AND INSULIN IN VIVO ON ENZYMES OF PYRUVATE AND MALATE METABOLISM IN ADIPOSE TISSUE] Iljin VS, Vasileva LE, Tokhadze OG *Biochimtia* 41: 1646-50, Sep 76 (Rus) DL/77FEB12
ADIPOSE TISSUE (enzymology); ALLOXAN DIABETES (enzymology); ANIMAL; ENGLISH ABSTRACT; HYDROCORTISONE (pharmacodynamics); INSULIN (pharmacodynamics); LACTATE DEHYDROGENASE ISOENZYMES (metabolism); MALATE DEHYDROGENASE (metabolism); PYRUVATE KINASE (metabolism); RATS.

Illingworth J

COORDINATION OF CITRIC ACID CYCLE ACTIVITY WITH ELECTRON TRANSPORT FLUX. Williamson JR, Ford C, Illingworth J, Safer B *Circ Res* 38: i39-51, May 76 (Eng) *DL/77FEB538

Imura H

IMPAIRED PLASMA INSULIN RESPONSE TO ARGININE IN HYPERTHYROIDISM. IMPORTANT ROLE OF THE RISE OF BLOOD GLUCOSE IN THE SECOND PHASE OF INSULIN RELEASE INDUCED BY ARGININE. Imura H, Seino Y, Ikeda M, Taminato T, Miyamoto Y *Diabetes* 25: 961-8, Oct 76 (Eng) DL/77FEB104

ADULT; AMINOPHYLLINE (pharmacodynamics); ARGININE (diagnostic use); BLOOD SUGAR (metabolism); DRUG SYNERGISM; FEMALE; GLUCOSE (pharmacodynamics); HUMAN; HYPERTHYROIDISM (metabolism); INSULIN (blood); MALE; MIDDLE AGE; XYLITOL (pharmacodynamics).

Inoue S

PEPTIC ULCER IN DIABETES MELLITUS. Masuda H, Inoue S, Arakawa H, Koizumi K, Kubo N *Gastroenterol Jpn* 11: 1-4, 1976 (Eng) DL/77FEB128

Isacson S

EFFECT OF ETHYLOESTRENOL ON FIBRINOLYSIS IN THE VESSEL WALL. Hedner U, Nilsson IM, Isacson S *Br Med J* 2: 729-31, 25 Sep 76 (Eng) DL/77FEB24

Isaksson O

FACTORS CONTROLLING PROTEIN SYNTHESIS IN HEART MUSCLE. Hjalmarson AC, Isaksson O, Kallfelt BJ *Adv Cardiol* 18: 57-80, 1976 (Eng) DL/77FEB463

Ishida T

COMPARISON STUDIES OF NEUROTENSIN AND XENOPIN UPON PANCREATIC SECRETION IN THE DOG [PROCEEDINGS]. Ishida T, Kawamura K, Goto A, Nishina Y, Takahara J *Metabolism* 25: 1467, Nov 76 (Eng) DL/77FEB301
ANIMAL; C-PEPTIDE (blood); COMPARATIVE STUDY; DOGS; GASTRIN (blood); GLUCAGON (blood); INSULIN (blood); ISLANDS OF

LANGERHANS (drug effects, secretion); PANCREATIC HORMONES (secretion); PEPTIDES (pharmacodynamics); PITUITARY GLAND (physiology).

Ishikawa S

[GIANT TUMOR OF THE MEDIASTINUM ASSOCIATED WITH HYPOGLYCEMIA: STUDY OF HYPOGLYCEMIA CAUSED BY EXTRA-PANCREATIC TUMOR] Ishikawa S, Suzuki R, Onishi T *J Jpn Assoc Thorac Surg* 24: 967-75, Jul 76 (Jpn) DL/77FEB194
CASE REPORT; ENGLISH ABSTRACT; HUMAN; HYPOGLYCEMIA (etiology); LEIOMYOMA (complications); MALE; MEDIASTINAL NEOPLASMS (complications); MIDDLE AGE.

Issel EP

[CLINICAL PROBLEMS OF PREMATURE LABOR. I. DIAGNOSIS OF THREATENING PREMATURE LABOR AND THE SCREENING PROCEDURE] Bayer H, Issel EP, Agricola H, Roigas E *Zentralbl Gynaekol* 98: 1025-34, 1976 (Ger) DL/77FEB447

Isselhard W

EFFECT ON MYOCARDIAL METABOLIC PATTERN OF LOCAL COMPLETE AND INCOMPLETE ISCHEMIA. Isselhard W, Geppert E, Menge M, Lauterjung KL, Vogel W, Witte I, Heugel E *Recent Adv Stud Cardiac Struct Metab* 7: 231-6, 1975 (Eng) *DL/77FEB664
ADENOSINE MONOPHOSPHATE (metabolism); ANIMAL EXPERIMENTS (analysis); CORONARY DISEASE (metabolism); CREATINE (metabolism); DISEASE MODELS, ANIMAL; DOGS; GLYCOGEN (metabolism); HEART VENTRICLE (metabolism); LACTATES (metabolism); MYOCARDIAL INFARCT (metabolism); MYOCARDIUM (metabolism); PHOSPHOCREATINE (metabolism); TIME FACTORS.

Ito M

CLINICAL INVESTIGATION ON ABNORMAL GLUCOSE TOLERANCE IN LIVER CIRRHOSIS. Kato K, Kikuchi S, Ito M *Gastroenterol Jpn* 11: 31-7, 1976 (Eng) DL/77FEB129

Ito S

VITAMIN B2 METABOLISM IN THE ISOLATED PERFUSED RAT LIVER. Okuyama S, Ito S, Nishino Y *Gastroenterol Jpn* 11: 5-10, 1976 (Eng) DL/77FEB130

Iudicello P

[PREVENTION OF ARTERIOSCLEROSIS DURING CHILDHOOD: PRELIMINARY RESEARCH] Nigro N, Benso L, Martini A, Bultieri M, Brunet MR, Iudicello P *Minerva Pediatr* 27: 288-312, 18 Feb 75 (Ita) *DL/77FEB611

Iversen J

GUT HORMONES AND THE ALPHA CELL. Bloom SR, Iversen J *Metabolism* 25: 1457-8, Nov 76 (Eng) DL/77FEB297

Iwata H

CATECHOLAMINE METABOLISM IN THIAMINE-DEFICIENT RATS. Iwata H *J Nutr Sci Vitaminol (Tokyo)* 22 SUPPL: 25-7, Aug 76 (Eng) DL/77FEB205
AMPHETAMINES (pharmacodynamics); ANIMAL; CATECHOLAMINES (metabolism); CEREBRAL CORTEX (metabolism); GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); HEART ATRIUM (metabolism); HEART RATE (drug effects); HEART VENTRICLE (metabolism); MALE; RATS; RESERPINE (pharmacodynamics); SPLEEN (metabolism); THIAMINE DEFICIENCY (metabolism); TYRAMINE (pharmacodynamics).

Izumi T

A POLYPEPTIDE (AP-A) FROM SEA ANEMONE (ANTHOPEURA XANTHOGRAMMICA) WITH POTENT POSITIVE INOTROPIC ACTION. Shibata S, Norton TR, Izumi T, Matsuo T, Katsuki S *J Pharmacol Exp Ther* 199; 298-309, Nov 76 (Eng) DL/77FEB210

Jablonska S

[GLUCOSE TOLERANCE TESTS WITH ORAL GLUCOSE CHALLENGES OF 50 AND 100 GRAMS (AUTHORS TRANSL)] Federico RD, Jablonska S, Mello EH, Reis LC *Rev Bras Pesqui Med Biol* 9; 213-6, Sep 76 (Por) DL/77FEB371

Jackson WP

KINETICS OF INSULIN SECRETION IN CHRONIC PANCREATITIS AND MILD MATURITY ONSET DIABETES. (EVIDENCE FOR GUT HORMONE ACTION BEYOND GLUCORECEPTOR AND CYCLIC ADENOSINE MONOPHOSPHATE MEDIATED INSULIN RELEASE). Botha JL, Vinik AI, Blake KC, Jackson WP *Eur J Clin Invest* 6; 365-72, 10 Sep 76 (Eng) DL/77FEB72

Jacob HS

FRAGMENTATION HAEMOLYSIS IN PATIENTS WITH SEVERE DIABETIC ANGIOPATHY. Brunning RD, Jacob HS, Brenckman WD, Jimenez-Pasquau F, Goetz FC *Br J Haematol* 34; 283-9, Oct 76 (Eng) DL/77FEB7

Jacobs C

[INTERCAPILLARY GLOMERULOSCLEROSIS] Jacobs C, Legrain M *Rev Prat* 26; 3133-44, 11 Oct 76 (Fre) DL/77FEB385
DIABETIC NEPHROPATHIES (diagnosis); ENGLISH ABSTRACT; HUMAN.

Jacobs JA

INFLUENCE OF CHRONIC THYROTROPIN-RELEASING HORMONE INJECTIONS ON SECRETION OF PROLACTIN, THYROTROPIN AND GROWTH HORMONE AND ON GROWTH RATE IN WETHER LAMBS. Davis SL, Hill DM, Ohlson DL, Jacobs JA *J Anim Sci* 42; 1244-50, May 76 (Eng) *DL/77FEB566

Jacobs RL

SALVAGE OF THE DIABETIC FOOT BY VASCULAR RECONSTRUCTION. Karmody AM, Jacobs RL *Orthop Clin North Am* 7; 957-77, Oct 76 (Eng) DL/77FEB333

Jacobsen H

PURIFICATION AND CHARACTERIZATION OF A PROTEIN FROM PORCINE GUT WITH GLUCAGON-LIKE IMMUNOREACTIVITY. Sundby F, Jacobsen H, Moody AJ *Horm Metab Res* 8; 366-71, Sep 76 (Eng) DL/77FEB143

STRUCTURE-FUNCTION RELATIONSHIP: IMMUNOLOGIC. Heding LG, Frandsen EK, Jacobsen H *Metabolism* 25; 1327-9, Nov 76 (Eng) DL/77FEB267

Jacobsen JR

[NEONATAL HYPOGLYCEMIA FOLLOWING BETA BLOCKER TREATMENT IN PREGNANCY] Forthoft B, Jacobsen JR *Ugeskr Laeger* 138; 2958-9, 15 Nov 76 (Dan) DL/77FEB419

Jacotot B

CHARACTERIZATION OF LIPIDS ASSOCIATED WITH MACROMOLECULES OF THE INTERCELLULAR MATRIX OF HUMAN AORTA. Claire M, Jacotot B, Robert L *Connect Tissue Res* 4; 61-71, 1976 (Eng) *DL/77FEB544

Jahnchen E

PHARMACOKINETIC ANALYSIS OF THE INTERACTION BETWEEN DICOUMAROL AND

TOLBUTAMIDE IN MAN. Jahnchen E, Meinertz T, Gilfrich HJ, Groth U *Eur J Clin Pharmacol* 10; 349-56, 30 Sep 76 (Eng) DL/77FEB74

ADULT; BISHYDROXYCOUMARIN (metabolism, pharmacodynamics); DRUG INTERACTIONS; HALF-LIFE; HUMAN; MALE; PROTEIN BINDING; TOLBUTAMIDE (metabolism, pharmacodynamics).

Jahrmarker H

MYOCARDIAL HIGH ENERGY PHOSPHATES IN EXPERIMENTAL THYROTOXICOSIS IN GUINEA PIGS. Jahrmarker H, Rackwitz R, Otter HP *Recent Adv Stud Cardiac Struct Metab* 7; 199-207, 1975 (Eng) *DL/77FEB659

ADENINE NUCLEOTIDES (metabolism); ANIMAL EXPERIMENTS (analysis); FRUCTOSEPHOSPHATES (metabolism); GLUCOSEPHOSPHATES (metabolism); GUINEA PIGS; HEART RATE; HEXOSEDIPHOSPHATES (metabolism); HYPERTHYROIDISM (chemically induced, metabolism); MYOCARDIUM (metabolism); PHOSPHATES, INORGANIC (metabolism); PHOSPHOCREATINE (metabolism); PRACTOLOL (pharmacodynamics); THYROXINE; TRIIODOTHYRONINE.

Janacek K

MUSCULAR AND SEROSAL EFFECTS OF INSULIN ON ION CONTENTS OF THE FROG URINARY BLADDER. Janacek K, Rybova R, Slavikova M *Physiol Bohemoslov* 25; 385-7, 1976 (Eng) DL/77FEB367

ANIMAL; BLADDER (drug effects, metabolism); CELL MEMBRANE PERMEABILITY (drug effects); INSULIN (pharmacodynamics); MUCOUS MEMBRANE (drug effects, metabolism); RANA TEMPORARIA; SODIUM (metabolism).

Jarett L

ADIPOCYTE BETA-ADRENERGIC RECEPTORS. IDENTIFICATION AND SUBCELLULAR LOCALIZATION BY (-)-[3H]DIHYDROALPRENOLOL BINDING. Williams LT, Jarett L, Lefkowitz RJ *J Biol Chem* 251; 3096-104, 25 May 76 (Eng) *DL/77FEB572

Jarrett RJ

HYPERGLYCAEMIA AND DIABETES MELLITUS. Jarrett RJ, Keen H *Lancet* 2; 1009-12, 6 Nov 76 (Eng) DL/77FEB250

ADULT; AGED; ARTERIOSCLEROSIS (etiology); BLOOD SUGAR (analysis); CATARACT (etiology); COMPARATIVE STUDY; DIABETES MELLITUS (blood, complications, diagnosis); DIABETIC ANGIOPATHIES (occurrence); DIABETIC RETINOPATHY (occurrence); ENGLAND; GLUCOSE TOLERANCE TEST; HUMAN; HYPERGLYCEMIA (complications, diagnosis); INDIANS, NORTH AMERICAN; MALE; MIDDLE AGE.

SMOKING AND OTHER RISK FACTORS FOR CORONARY HEART-DISEASE IN BRITISH CIVIL SERVANTS. Reid DD, Hamilton PJ, McCartney P, Rose G, Jarrett RJ, Keen H *Lancet* 2; 979-84, 6 Nov 76 (Eng) DL/77FEB53

Jary C

WIDESPREAD JUXTA-ARTICULAR BONE NECROSIS IN A TUNNELLER. Sewell JR, Jary C *Proc R Soc Med* 69; 706-7, Sep 76 (Eng) DL/77FEB361

Jaspan JB

HETEROGENEITY OF PLASMA GLUCAGON IN MAN. Jaspan JB, Kuku SF, Locker JD, Huen A, Emmanouel DS, Katz AI, Rubenstein AH *Metabolism* 25; 1397-401, Nov 76 (Eng) DL/77FEB282

ACIDOSIS, DIABETIC (blood); ANIMAL; DIABETES MELLITUS (blood, immunology); GLUCAGON (blood, immunology); HUMAN; ISLET CELL TUMOR (blood); KETOSIS, DIABETIC (blood); KIDNEY FAILURE, CHRONIC (blood); KIDNEY (physiology); MOLECULAR WEIGHT; RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Jeanjean M

[PROBLEMS IN GLYCOREGULATION AND SENESENCE] Gommers A, Jeanjean M, Dehez-Delhay M *Probl Actuels Endocrinol Nutr* serie 17; 193-207, 1973 (Fre) DL/77FEB357

Jeanmonod D

[HYPOGLYCAEMIA (AUTHORS TRANSL)] Uebersax R, Jeanmonod D, Meyrat CA *Praxis* 65; 504-9, 27 Apr 76 (Fre) DL/77FEB354

Jeffrey PD

POLYMERIZATION PATTERN OF INSULIN AT PH 7.0. Jeffrey PD, Milthorpe BK, Nichol LW *Biochemistry* 15; 4660-5, 19 Oct 76 (Eng) DL/77FEB10
HYDROGEN-ION CONCENTRATION (physiology); INSULIN; MACROMOLECULAR SYSTEMS; MATHEMATICS; MOLECULAR WEIGHT; PROTEIN BINDING.

Jellet LB

INSULIN LOSS IN PARENTERAL NUTRITION SYSTEMS. Oh TE, Dyer H, Wall BP, Hall RA, Jellet LB *Anaesth Intensive Care* 4; 342-6, Nov 76 (Eng) DL/77FEB484

Jendrasiak GL

THE MOVEMENT OF ION PAIRS ACROSS BILAYER LIPID MEMBRANES. Mangel M, Jendrasiak GL *Chem Phys Lipids* 16; 167-80, Mar 76 (Eng) *DL/77FEB535

Jennings AS

AN IMPORTANT ROLE FOR GLUCAGON IN THE REGULATION OF GLUCOSE PRODUCTION IN VIVO. Liljenquist JE, Chianian JL, Cherrington AD, Keller U, Jennings AS, Bomboy JD, Lacy WW *Metabolism* 25; 1371-3, Nov 76 (Eng) DL/77FEB276

Jennings ML

INTERACTION BETWEEN PHLORETIN AND THE RED BLOOD CELL MEMBRANE. Jennings ML, Solomon AK *J Gen Physiol* 67; 381-97, Apr 76 (Eng) *DL/77FEB598
BINDING SITES; BIOLOGICAL TRANSPORT (drug effects); CELL MEMBRANE PERMEABILITY; CELL MEMBRANE (metabolism); ERYTHROCYTES (metabolism); GLUCOSE (metabolism); HEMOGLOBINS (metabolism); HEMOLYSIS; HUMAN; KINETICS; LIPIDS (metabolism); PHILIPPINES (physiology); PHLORETIN (metabolism, pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Jensen HA

[BLOOD GLUCOSE LEVELS IN PATIENTS ON HEMODIALYSIS DURING PROPRANOLOL (INDERAL) TREATMENT] Jensen HA, Laursen PA, Moller BB *Ugeskr Laeger* 138; 2956-7, 15 Nov 76 (Dan) DL/77FEB418

ADULT; AGED; BLOOD SUGAR (analysis); ENGLISH ABSTRACT; FEMALE; HEMODIALYSIS; HUMAN; HYPERTENSION (drug therapy); HYPOGLYCEMIA (chemically induced); MALE; MIDDLE AGE; PROPRANOLOL (adverse effects, therapeutic use); TIME FACTORS.

Jervell J

ARTERIAL-HEPATIC VEIN GLUCOSE DIFFERENCES IN NORMAL AND DIABETIC MAN AFTER A GLUCOSE INFUSION AT REST AND AFTER EXERCISE. Machlum S,

Jesrani MU

Jervell J, Pruett ED *Scand J Clin Lab Invest* 36: 415-22, Sep 76 (Eng) DL/77FEB391

Jesrani MU

MYOCARDIAL ION AND LIPID CHANGES DURING ISCHEMIA AND CATECHOLAMINE INDUCED NECROSIS: RELATION TO REGIONAL BLOOD FLOW. Regan TJ, Markov A, Khan MI, Jesrani MU, Oldewurtel HA, Ettinger PO *Recent Adv Stud Cardiac Struct Metab* 1: 656-64, 1972 (Eng) *DL/77FEB649

Jimenez-Pasquau F

FRAGMENTATION HAEMOLYSIS IN PATIENTS WITH SEVERE DIABETIC ANGIOPATHY. Brunning RD, Jacob HS, Brenckman WD, Jimenez-Pasquau F, Goetz FC *Br J Haematol* 34: 283-9, Oct 76 (Eng) DL/77FEB7

Johansen K

THE EXCRETION OF INSULIN IN URINE. Ellaway RM, Sonne O, Gliemann J, Orskov H, Johansen K *Diabetologia* 12: 523-6, Oct 76 (Eng) DL/77FEB122

Johanson AJ

HUMAN GROWTH HORMONE CHANGES WITH AGE. PP. 261-70. Bazzarre TL, Johanson AJ, Huseman CA, Varma MM, Blizzard RM *In: Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB182*

Johnson O

EFFECT OF ETHANOL ON THE ACTIVITY OF LIPOPROTEIN LIPASE IN ADIPOSE TISSUE OF MALE AND FEMALE RATS. Johnson O, Hernell O *Nutr Metab* 19: 41-4, 1975 (Eng) *DL/77FEB616

ADIPOSE TISSUE (drug effects, enzymology); ALCOHOL, ETHYL (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); FEMALE; GLYCERIN (blood); LIPOPROTEIN LIPASE (metabolism); MALE; RATS; TRIGLYCERIDES (blood).

Johnson PC

OXYGEN UPTAKE AND TISSUE OXYGEN TENSION DURING ADRENERGIC STIMULATION IN CANINE SUBCUTANEOUS ADIPOSE TISSUE. Fredholm BB, Linde B, Prewitt RL, Johnson PC *Acta Physiol Scand* 97: 48-59, Mar 76 (Eng) *DL/77FEB690

Jokanovic R

[INSULIN HYPOGLYCEMIA DURING TREATMENT OF DIABETES MELLITUS IN CHILDREN] Jokanovic R, Nikezic M *Srp Arh Celok Lek* 104: 49-56, Jan 76 (Ser) DL/77FEB404

ADOLESCENCE; ADULT; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (drug therapy); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPOGLYCEMIA (chemically induced); INSULIN (adverse effects); MALE.

Jones CJ

GROWTH HORMONE, CYCLIC NUCLEOTIDES AND THE RAPID CONTROL OF TRANSLATION IN HEART MUSCLE. Mowbray J, Davies JA, Bates DJ, Jones CJ *Biochem J* 152: 583-92, Dec 75 (Eng) *DL/77FEB712

Jones JJ

SERUM INSULIN SECRETION BY ADULT MALAYSIANS. Jones JJ, Aimalt PP, Owyong LY, Kutty MK *Med J Malaysia* 30: 285-6, Jun 76 (Eng) DL/77FEB318

ADULT; FEMALE; HUMAN; INSULIN (blood); MALAYSIA; MALE; MIDDLE AGE.

Diabetes Literature—Author Index

Jones KL

STUDIES OF HUMAN DIPLOID FIBROBLAST GROWTH. I. RESPONSES OF NORMAL AND HYPOTHYROID CELLS TO FIBROBLAST GROWTH FACTOR, INSULIN, AND SERUM. Jones KL, Addison J *J Clin Endocrinol Metab* 43: 721-9, Oct 76 (Eng) DL/77FEB166

ANIMAL; CATTLE; CELL DIVISION (drug effects); CELL LINE; CELLS, CULTURED; CHILD; CHILD, PRESCHOOL; CULTURE MEDIA; CYCLOHEXIMIDE (pharmacodynamics); DIPLOIDY; DNA REPLICATION (drug effects); FIBROBLASTS (drug effects, metabolism); GROWTH SUBSTANCES (pharmacodynamics); HUMAN; HYPOTHYROIDISM (metabolism); INFANT; INFANT, NEWBORN; INSULIN (pharmacodynamics); KINETICS; MALE; SKIN (drug effects, metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .

Joost HG

THE INHIBITION OF INSULIN SECRETION FROM THE PERFUSED RAT PANCREAS AFTER THYROXINE TREATMENT. Lenzen S, Joost HG, Hasselblatt A *Diabetologia* 12: 495-500, Oct 76 (Eng) DL/77FEB118

Junikiewicz E

FURTHER STUDIES ON THE POSSIBILITY OF DIFFERENTIAL DEMONSTRATION OF RADICALS OF SULPHUR-CONTAINING AMINO-ACIDS. Szydłowska H, Junikiewicz E *Folia Histochem Cytochem (Krakow)* 14: 57-62, 1976 (Eng) *DL/77FEB563

Kaelin D

PROINSULIN SYNTHESIS IN ISLETS OF LANGERHANS FROM SPINY MICE (ACOMYS CAHIRINUS). COMPARISON WITH RATS AND MICE. Trueheart PA, Maldonado A, Kaelin D, Renold AE, Sharp GW *Diabetologia* 12: 463-70, Oct 76 (Eng) DL/77FEB115

Kaffarnik H

[FATTY ACID PATTERNS AND GLUCOSE TOLERANCE IN HUNTINGTONS CHOREA (AUTHORS TRANSL)] Schubotz R, Hausmann L, Kaffarnik H, Zehner J, Oepen H *Res Exp Med (Berl)* 167: 203-15, 2 Jul 76 (Ger) DL/77FEB376

Kahn CR

RADIORECEPTOR ASSAY OF PLASMA NSILAS IN MAN: BASAL AND STIMULATED LEVELS IN NORMAL AND PATHOLOGIC STATES. PP. 127-40. Megyesi K, Kahn CR, Roth J, Gorden P, Neville DM Jr *In: Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB187*

HORMONAL REGULATION OF THE AFFINITY AND CONCENTRATION OF HORMONE RECEPTORS IN TARGET CELLS. DeMeys P, Kahn CR, Roth J, Bar RS *Metabolism* 25: 1365-70, Nov 76 (Eng) DL/77FEB275

Kako KJ

METABOLISM OF ERUCIC ACID IN THE ISOLATED PERFUSED RAT HEART. Vasdev SC, Kako KJ *Biochim Biophys Acta* 431: 22-32, 22 Apr 76 (Eng) *DL/77FEB523

MECHANISM OF ETHANOL-INDUCED TRIGLYCERIDE ACCUMULATION IN THE RABBIT HEART. Kako KJ, Kikuchi T *Recent Adv Stud Cardiac Struct Metab* 1: 596-604, 1972 (Eng) *DL/77FEB647

ALCOHOL, ETHYL (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); FATTY ACIDS (metabolism); FATTY ACIDS, NONESTERIFIED (blood); HEART VENTRICLE (metabolism); HEART (drug effects); LIPOPROTEIN LIPASE (metabolism);

MYOCARDIUM (metabolism); OXIDATION-REDUCTION; PALMITIC ACIDS (metabolism); RABBITS; TRIGLYCERIDES (metabolism).

Kalantar IL

[ANALYSIS OF BREAST CELL DIFFERENTIATION IN TISSUE CULTURE UNDER THE INFLUENCE OF HORMONES] Kalantar IL, Khrustaleva GI, Nechipurenko LV, Medvedev IK *Tsitologiya* 18: 1014-9, Aug 76 (Rus) DL/77FEB416

ANIMAL; CELL DIFFERENTIATION (drug effects); DRUG INTERACTIONS; ENGLISH ABSTRACT; FEMALE; GOATS; HYDROCORTISONE (pharmacodynamics); INSULIN (pharmacodynamics); MAMMAE (drug effects); PREGNANCY; PROLACTIN (pharmacodynamics); TISSUE CULTURE.

Kaldany A

PLASMA RENIN ACTIVITY AND HYPERTENSION IN DIABETES MELLITUS. Christlieb AR, Kaldany A, Delia JA *Diabetes* 25: 969-74, Oct 76 (Eng) DL/77FEB105

Kalina Z

[HORMONAL DISORDERS IN A PATIENT WITH MORGAGNI-MOREL-STEWART SYNDROME] Hrycek A, Kubek A, Grabski J, Kalina Z *Wiad Lek* 29: 1673-6, 15 Sep 76 (Pol) DL/77FEB432

Kallfelt BJ

FACTORS CONTROLLING PROTEIN SYNTHESIS IN HEART MUSCLE. Hjalmarson AC, Isaksson O, Kallfelt BJ *Adv Cardiol* 18: 57-80, 1976 (Eng) DL/77FEB463

Kammermeier B

IS SUBSTRATE SUPPLY OF THE MYOCARDIUM LIMITED BY CAPILLARY EXCHANGE? Kammermeier H, Kammermeier B *Recent Adv Stud Cardiac Struct Metab* 7: 61-7, 1975 (Eng) *DL/77FEB677

Kammermeier H

IS SUBSTRATE SUPPLY OF THE MYOCARDIUM LIMITED BY CAPILLARY EXCHANGE? Kammermeier H, Kammermeier B *Recent Adv Stud Cardiac Struct Metab* 7: 61-7, 1975 (Eng) *DL/77FEB677

ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT; BIOLOGICAL TRANSPORT, ACTIVE; CAPILLARIES (metabolism); CAPILLARY PERMEABILITY; FATTY ACIDS, NONESTERIFIED (metabolism); GLUCOSE (metabolism); GUINEA PIGS; IN VITRO; KINETICS; LACTATES (metabolism); MATHEMATICS; MYOCARDIUM (metabolism); OXYGEN CONSUMPTION; PALMITIC ACIDS (metabolism); PERFUSION; RATS.

Kamysheva EP

[AMOUNT OF ACETONE AND ETHYL ALCOHOL IN THE BLOOD AND URINE OF PATIENTS WITH DIABETES MELLITUS AND ISCHEMIC HEART DISEASE] Kamysheva EP, Sorochkina RM, Kapatsinskaya LK, Romanova LN, Danilova MI *Sov Med* 147-8, Apr 76 (Rus) DL/77FEB403

ACETONE (metabolism); ADULT; AGED; ALCOHOL, ETHYL (metabolism); CORONARY DISEASE (metabolism); DIABETES MELLITUS (metabolism); DIURNAL RHYTHM; HUMAN; MIDDLE AGE.

Kanabus P

[CURRENT VIEWS ON THE ACTION OF CHLORPROMAZINE] Kanabus P *Psychiatr Pol* 10: 189-95, Mar-Apr 76 (Pol) [J1] *DL/77FEB628

BIOTRANSFORMATION; CARBOHYDRATES (metabolism); CHEMISTRY; CHLORPROMAZINE (metabolism,

pharmacodynamics, therapeutic use);
DEALKYLATION; HUMAN;
HYDROXYLATION; NERVE TISSUE
(metabolism); REVIEW; SCHIZOPHRENIA (drug
therapy, metabolism).

Kaneti Ia

[SCINTIGRAPHY OF THE PANCREAS IN INSU-
LOMA] Romanova A, Zografski A, Kaneti Ia
Vatr Boles 14: 123-7, 1975 (Bul)
*DL/77FEB682

Kaniak J

[BLOOD CLOTTING AND FIBRINOLYTIC AC-
TIVITY AND PLATELET CHANGES IN
CHRONIC PERIPHERAL ARTERIAL INSUF-
FICIENCY] Kaniak J, Kotschy M, Kurzawska M,
Włodarczyk J, Prastowski W *Pol Tyg Lek* 31:
1757-60, 11 Oct 76 (Pol) DL/77FEB350

ADOLESCENCE; ADULT;
ARTERIOSCLEROSIS OBLITERANS (blood);
BLOOD COAGULATION; BLOOD
PLATELETS; CHRONIC DISEASE; DIABETIC
ANGIOPATHIES (blood); ENGLISH
ABSTRACT; FEMALE; FIBRINOLYSIS;
HUMAN; LEG (blood supply); MALE;
THROMBOANGITIS OBLITERANS (blood).

Kanike K

ASSOCIATION OF GLYCOGENOLYSIS WITH
CARDIAC SARCOPLASMIC RETICULUM.
Entam ML, Kanike K, Goldstein MA, Nelson
TE, Bornet EP, Futch TW, Schwartz A *J Biol
Chem* 251: 3140-6, 25 May 76 (Eng)
*DL/77FEB575

Kanno T

PROGRESSIVE ENHANCEMENT IN THE
SECRETORY FUNCTIONS OF THE
DIGESTIVE SYSTEM OF THE RAT IN THE
COURSE OF COLD ACCLIMATION. Harada
E, Kanno T *J Physiol (Lond)* 260: 629-45, Sep 76
(Eng) DL/77FEB211

THE POTENTIATING INFLUENCES OF INSU-
LIN ON PANCREOZYMIN-INDUCED HYPER-
POLARIZATION AND AMYLASE RELEASE
IN THE PANCREATIC ACINAR CELL. Kanno
T, Saito A *J Physiol (Lond)* 261: 505-21, Oct 76
(Eng) DL/77FEB213

AMYLASE (secretion); ANIMAL; BIOLOGICAL
TRANSPORT; ACTIVE (drug effects);
CHOLECYSTOKININ (pharmacodynamics);
DRUG SYNERGISM; IN VITRO; INSULIN
(pharmacodynamics); MALE; MEMBRANE
POTENTIALS (drug effects); OUBAIN
(pharmacodynamics); PANCREAS (drug effects,
secretion); RATS; TACHYPHYLAXIS.

Kao R

EFFECTS OF ANOXIA AND ISCHEMIA ON
PROTEIN SYNTHESIS IN PERFUSED RAT
HEARTS. Kao R, Rannels DE, Morgan HE *Circ
Res* 38: i124-30, May 76 (Eng) *DL/77FEB536

AEROBICOSIS; ANAEROBICOSIS; ANIMAL
EXPERIMENTS (analysis); ANOXIA
(metabolism); CORONARY CIRCULATION;
CORONARY DISEASE (metabolism); DISEASE
MODELS; ANIMAL; LACTATES (biosynthesis);
MALE; MUSCLE PROTEINS (biosynthesis);
MYOCARDIUM (analysis, metabolism);
PERFUSION; PHENYLALANINE (metabolism);
PHOSPHOCREATINE (analysis); PURINE
NUCLEOTIDES (analysis); RATS; UNITED
STATES GOVERNMENT SUPPORTED, N.I.H.).

Kapatsinskaia LK

[AMOUNT OF ACETONE AND ETHYL AL-
COHOL IN THE BLOOD AND URINE OF PA-
TIENTS WITH DIABETES MELLITUS AND
ISCHEMIC HEART DISEASE] Kamysheva EP,
Sorochkina RM, Kapatsinskaia LK, Romanova
LN, Danilova MI *Sov Med* 147-8, Apr 76 (Rus)
DL/77FEB403

Kaplan SA

TRIACETYLATED INSULIN: BIOLOGIC AC-
TIVITY AND RESISTANCE TO DEGRADA-
TION. Kaplan SA, Morris JW, Davidson MB,
Gerschenson LE, Scott M *Metabolism* 25: 1209-
16, Nov 76 (Eng) DL/77FEB261

ADIPOSE TISSUE (drug effects, metabolism);
ANIMAL; CELL MEMBRANE (metabolism);
EPIDIDYMIS; GLUCOSE (metabolism);
INSULIN (analogs & derivatives, metabolism,
pharmacodynamics); KINETICS; LIVER (drug
effects, metabolism); MALE; PROTEIN
BINDING; RATS; TYROSINE
AMINOTRANSFERASE (metabolism); UNITED
STATES GOVERNMENT SUPPORTED, N.I.H.).

Kappesser RM

HYPOGLYCEMIA AND HYPOINSULINEMIA
ASSOCIATED WITH HEPATOMA IN A DOG.
Strombeck DR, Krum S, Meyer D, Kappesser
RM *J Am Vet Med Assoc* 169: 811-2, 15 Oct 76
(Eng) DL/77FEB152

Karam JH

EFFECTS OF ACUTE INSULIN WITHDRAWAL
AND ADMINISTRATION ON PLASMA GLU-
CAGON RESPONSES TO INTRAVENOUS AR-
GININE IN INSULIN-DEPENDENT DIABETIC
SUBJECTS. Gerich JE, Lorenzi M, Tsalikian E,
Bohannon NV, Schneider V, Karam JH,
Forsham PH *Diabetes* 25: 955-60, Oct 76 (Eng)
DL/77FEB103

Kark RA

KETONIC DIET IN THE MANAGEMENT OF
PYRUVATE DEHYDROGENASE DEFICIEN-
CY. Falk RE, Cederbaum SD, Blass JP, Gibson
GE, Kark RA, Carrel RE *Pediatrics* 58: 713-21,
Nov 76 (Eng) DL/77FEB338

Karmody AM

SALVAGE OF THE DIABETIC FOOT BY
VASCULAR RECONSTRUCTION. Karmody
AM, Jacobs RL *Orthop Clin North Am* 7: 957-77,
Oct 76 (Eng) DL/77FEB333

AMPUTATION; DIABETES MELLITUS
(complications); FEMORAL ARTERY
(radiography); FOOT DISEASES (etiology,
surgery); FOOT (blood supply); GANGRENE
(etiology, surgery); HUMAN; ILIAC ARTERY
(radiography); POSTOPERATIVE
COMPLICATIONS (poisoning); ULCER
(etiology, surgery); VASCULAR SURGERY
(methods).

Kashkin KA

[SURGICAL DISEASES ACCOMPANYING
DIABETES MELLITUS] Kashkin KA *Khirurgiia
(Mosk)* 105-11, Mar 76 (Rus) DL/77FEB224

ADOLESCENCE; ADULT; AGED;
CHOLECYSTITIS (complications); DIABETES
MELLITUS (complications); DIABETIC
ANGIOPATHIES (complications); ENGLISH
ABSTRACT; FEMALE; HUMAN; MALE;
MIDDLE AGE; NEOPLASMS (complications);
SKIN DISEASES, INFECTIOUS (complications);
THYROID DISEASES (complications).

Kasper H

[TRANSPORT OF FREE FATTY ACIDS AND
ENERGY METABOLISM DURING HYPO-
AND HYPERCALORIC FORMULA DIETS]
Schonborn J, Dadrach E, Rabast U, Kasper H
Verh Dtsch Ges Inn Med 81: 1402-5, 1975 (Ger)
*DL/77FEB685

Kasprzak K

EFFECTS OF TRIETHYLENETETRAMINE
UPON THE METABOLISM AND TOXICITY
OF 63NiCl₂ IN RATS. Sunderman FW Jr,
Kasprzak K, Horak E, Giltitz P, Onkelinx C *Toxi-
col Appl Pharmacol* 38: 177-88, Oct 76 (Eng)
DL/77FEB414

Kastin AJ

ENDOCRINE AND EXTRA-ENDOCRINE STU-
DIES OF HYPOTHALAMIC HORMONES IN
MAN. PP. 196-206. Kastin AJ, Schally AV,
Ehrensing RH, Barbeau A In: Lederis K, Cooper
KE, ed. *Recent studies of hypothalamic function*.
Basel, Karger, 1974. WL 312 165r 1973. (Eng)
[44] *DL/77FEB590

DEPRESSION (drug therapy); FEEDBACK;
FEMALE; HUMAN; HYPOTHALAMUS
(metabolism); LH (secretion); LH-FSH
RELEASING HORMONE (administration &
dosage, diagnostic use); MALE; MONOGRAPH
(mortality); MSH RELEASE INHIBITING
HORMONE (diagnostic use, physiology,
therapeutic use); MSH (secretion); OVULATION
(drug effects); PARKINSONISM (drug therapy);
PROLACTIN (secretion); REVIEW;
SOMATOTROPIN RELEASING HORMONE
(diagnostic use); SPERMATOGENESIS (drug
effects); THYROTROPIN RELEASING
HORMONE (diagnostic use); THYROTROPIN
RELEASING HORMONE (therapeutic use);
THYROTROPIN (blood).

Kather H

[ADIPOSE-TISSUE ADENYL CYCLASE] Kather
H, Simon B *Med Klin* 71: 739-44, 30 Apr 76
(Ger) [63] *DL/77FEB610

ADENYL CYCLASE (metabolism, physiology);
ADIPOSE TISSUE (enzymology, metabolism,
physiopathology); AGE FACTORS; ANIMAL
EXPERIMENTS (analysis); CALCIUM
(physiology); CELL MEMBRANE; HORMONES;
HUMAN; LIPIDS (metabolism); RATS;
RECEPTORS, DRUG; REVIEW; SPECIES
SPECIFICITY.

Kato K

CLINICAL INVESTIGATION ON ABNORMAL
GLUCOSE TOLERANCE IN LIVER CIRRHOS-
IS. Kato K, Kikuchi S, Ito M *Gastroenterol Jpn*
11: 31-7, 1976 (Eng) DL/77FEB129

ADULT; AGED; BLOOD SUGAR (metabolism);
FATTY ACIDS (blood); FATTY ACIDS,
NONESTERIFIED (blood); GLUCOSE
TOLERANCE TEST; HUMAN; INSULIN
(blood); LIVER CIRRHOSIS (blood); MIDDLE
AGE.

Katsuki S

A POLYPEPTIDE (AP-A) FROM SEA ANEMONE
(ANTHOPLEURA XANTHOGRAMMICA)
WITH POTENT POSITIVE INOTROPIC AC-
TION. Shibata S, Norton TR, Izumi T, Matsuo T,
Katsuki S *J Pharmacol Exp Ther* 199: 298-309,
Nov 76 (Eng) DL/77FEB210

Katz AI

HETEROGENEITY OF PLASMA GLUCAGON
IN MAN. Jaspán JB, Kuku SF, Locker JD, Huen
A, Emmanouel DS, Katz AI, Rubenstein AH
Metabolism 25: 1397-401, Nov 76 (Eng)
DL/77FEB282

Kaufmann NA

NUTRITIONAL HEALTH IN A CHANGING
SOCIETY - STUDIES FROM ISRAEL. Guggen-
heim K, Kaufmann NA *World Rev Nutr Diet* 24:
217-40, 1976 (Eng) [67] DL/77FEB436

Kawada ME

ADRENAL AND LIVER PARTICIPATION IN
THE RATS POST-STRESS DIABETIC
RESPONSE. Vargas I, Kawada ME *Horm Metab
Res* 8: 383-8, Sep 76 (Eng) DL/77FEB144

Kawalek JC

PARTIAL PURIFICATION OF THE NADPH-DE-
PENDENT ALDEHYDE REDUCTASE FROM
BOVINE CARDIAC MUSCLE. Kawalek JC, Gil-
bertson JR *Arch Biochem Biophys* 173: 649-57,
Apr 76 (Eng) *DL/77FEB703

ALDEHYDE OXIDOREDUCTASES (isolation &
purification, metabolism); ANIMAL

Kawamura K

EXPERIMENTS (analysis); CATTLE; CHROMATOGRAPHY, GAS (methods); FATTY ACIDS (pharmacodynamics); KETONES (pharmacodynamics); KINETICS; MYOCARDIUM (enzymology); NADP; SPECTROPHOTOMETRY (methods); STRUCTURE-ACTIVITY RELATIONSHIP; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Kawamura K

COMPARISON STUDIES OF NEUROTENSIN AND XENOPIN UPON PANCREATIC SECRETION IN THE DOG [PROCEEDINGS]. Ishida T, Kawamura K, Goto A, Nishina Y, Takahara J *Metabolism* 25: 1467, Nov 76 (Eng) DL/77FEB301

Kawashima Y

SOME FACTORS AFFECTING CHAIN ELONGATION OF PALMITYL-COA IN RAT LIVER MICROSOMES. Nakagawa M, Kawashima Y, Uchiyama M *Chem Pharm Bull (Tokyo)* 24: 46-51, Jan 76 (Eng) *DL/77FEB533

Kedinger M

[XENOTRANSPLANTATION OF FETAL ENDOCRINE PANCREATIC TISSUE. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 690-9, 1976 (Fre) DL/77FEB61

Keen H

HYPERGLYCAEMIA AND DIABETES MELLITUS. Jarrett RJ, Keen H *Lancet* 2: 1009-12, 6 Nov 76 (Eng) DL/77FEB250

SMOKING AND OTHER RISK FACTORS FOR CORONARY HEART-DISEASE IN BRITISH CIVIL SERVANTS. Reid DD, Hamilton PJ, McCartney P, Rose G, Jarrett RJ, Keen H *Lancet* 2: 979-84, 6 Nov 76 (Eng) DL/77FEB253

Keller L

HUMAN C-PEPTIDE. PART II: CLINICAL STUDIES. Beischer W, Heinze E, Keller L, Raptis S, Kerner W, Pfeiffer EF *Klin Wochenschr* 54: 717-25, 1 Aug 76 (Eng) DL/77FEB228

Keller U

AN IMPORTANT ROLE FOR GLUCAGON IN THE REGULATION OF GLUCOSE PRODUCTION IN VIVO. Liljenquist JE, Chiasson JL, Cherrington AD, Keller U, Jennings AS, Bomboy JD, Lacy WW *Metabolism* 25: 1371-3, Nov 76 (Eng) DL/77FEB276

Kent S

IS DIABETES A FORM OF ACCELERATED AGING? Kent S *Geriatrics* 31: 140, 145, 149-51, Nov 76 (Eng) DL/77FEB131

ADULT; AGED; AGING; CARBOHYDRATES (metabolism); CHILD; COLLAGEN (metabolism); DIABETES MELLITUS (etiology); DIABETES MELLITUS (metabolism); DIABETES MELLITUS, JUVENILE (etiology); HUMAN; INSULIN (secretion).

Kerjaschki D

[SOME ASPECTS OF BIOLOGICAL MEMBRANES: CONCEPTS AND TECHNIQUES (AUTHORS TRANSL.)] Stockinger L, Kerjaschki D *Wien Klin Wochenschr* 87: 709-16, 14 Nov 75 (Ger) [22] *DL/77FEB683

Kermarec J

[GANGLIOCYTIC PARANGLIOMA OF THE DUODENUM. ONE CASE WITH ELECTRON MICROSCOPE STUDY (AUTHORS TRANSL.)] Kermarec J, Duplay H, Lesbros F *Arch Anat Cytol Pathol* 24: 261-8, 1976 (Fre) DL/77FEB492

AGED; CASE REPORT; CYTOPLASMIC GRANULES (ultrastructure); DUODENAL NEOPLASMS (ultrastructure); ENGLISH

ABSTRACT; GANGLIONEUROMA (ultrastructure); HUMAN; ISLANDS OF LANGERHANS (embryology); MALE; MICROSCOPY, ELECTRON; PARANGLIOMA (ultrastructure).

Kern P

[DRUG-INDUCED PANMYELOPATHIES] Heim-pel H, Kern P *Bull* 33: 1-10, Jul 76 (Ger) [35] DL/77FEB16

Kerner W

HUMAN C-PEPTIDE. PART II: CLINICAL STUDIES. Beischer W, Heinze E, Keller L, Raptis S, Kerner W, Pfeiffer EF *Klin Wochenschr* 54: 717-25, 1 Aug 76 (Eng) DL/77FEB228

Kervran A

STUDIES ON EXPERIMENTAL HYPOTROPHY IN THE RAT. III. PLASMA INSULIN AND GLUCAGON. Girard JR, Chanez C, Kervran A, Tordet-Caridroit C, Assan R *Biol Neonate* 29: 262-6, 1976 (Eng) DL/77FEB13

Keryer G

DISCUSSION PAPER ON CHOLINERGIC REGULATION OF GLYCOGENOLYSIS AND PROTEIN SECRETION IN RAT SALIVARY GLANDS. PP. 295-6. Rossignol B, Herman G, Keryer G, Chambaut-Guerin AM, Ovracht L, Bussan S, Brown EM, Fedak SA, Woodard CJ, Aurbach GD *Ino Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract. Baltimore, Univ Park Press, 1976. W1 102 5859 1975. (Eng) *DL/77FEB585*

Keul J

MYOCARDIAL SUBSTRATE UPTAKE IN MEN DURING EXERCISE UNDER HYPOXIC CONDITIONS. Keul J, Doll E *Recent Adv Stud Cardiac Struct Metab* 7: 261-6, 1975 (Eng) *DL/77FEB667

ACETOACETATES (metabolism); ADULT; ANOXIA (metabolism); EXERTION; FATTY ACIDS, NONESTERIFIED (metabolism); GLUCOSE (metabolism); HEART RATE; HUMAN; HYDROXYBUTYRATES (metabolism); LACTATES (metabolism); MALE; MYOCARDIUM (metabolism); OXYGEN (blood); PYRUVATES (metabolism).

Khan MI

MYOCARDIAL ION AND LIPID CHANGES DURING ISCHEMIA AND CATECHOLAMINE INDUCED NECROSIS: RELATION TO REGIONAL BLOOD FLOW. Regan TJ, Markov A, Khan MI, Jesrani MU, Oldewurtel HA, Ettinger PO *Recent Adv Stud Cardiac Struct Metab* 1: 656-64, 1972 (Eng) *DL/77FEB649

Khandwala AS

OXYGEN METABOLISM IN THE ALVEOLAR MACROPHAGE: FRIEND AND FOE. Bernard J, Gee JB, Khandwala AS *J Reticuloendothel Soc* 19: 229-36, Apr 76 (Eng) *DL/77FEB601

Khrustaleva GI

[ANALYSIS OF BREAST CELL DIFFERENTIATION IN TISSUE CULTURE UNDER THE INFLUENCE OF HORMONES] Kalantar IL, Khrustaleva GI, Nepochurenko LV, Medvedev IK *Tsitologiya* 18: 1014-9, Aug 76 (Rus) DL/77FEB416

Kido R

ORGAN DISTRIBUTION OF RAT HISTIDINE-PYRUVATE AMINOTRANSFERASE ISOENZYMES. Noguchi T, Minatogawa Y, Okuno E, Kido R *Biochem J* 157: 635-41, 1 Sep 76 (Eng) DL/77FEB502

Kikuchi S

CLINICAL INVESTIGATION ON ABNORMAL GLUCOSE TOLERANCE IN LIVER CIRRHOSIS. Kato K, Kikuchi S, Ito M *Gastroenterol Jpn* 11: 31-7, 1976 (Eng) DL/77FEB129

Kikuchi T

MECHANISM OF ETHANOL-INDUCED TRIGLYCERIDE ACCUMULATION IN THE RABBIT HEART. Kako KJ, Kikuchi T *Recent Adv Stud Cardiac Struct Metab* 1: 596-604, 1972 (Eng) *DL/77FEB647

Kinderneuroloog PF

[OBSTETRICAL BRACHIAL PLEXUS INJURIES. A STUDY ON PERINATAL MORBIDITY] Vrouwennarts PE, Arts JP, Kinderneuroloog PF *Ned Tijdschr Geneesk* 120: 1666-72, 2 Oct 76 (Dut) DL/77FEB329

King DL

PANCREATIC BETA CELL REPLICATION: EFFECTS OF HEXOSE SUGARS. King DL, Chick WL *Endocrinology* 99: 1003-9, OCT 76 (Eng) DL/77FEB68

ANIMAL; CELL DIVISION (drug effects); CELLS, CULTURED; DOSE-RESPONSE RELATIONSHIP, DRUG; FRUCTOSE (pharmacodynamics); GLUCOSE (pharmacodynamics); HEXOSES (pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, physiology, secretion); MANNOSE (pharmacodynamics); METHYLGUCOSIDES (pharmacodynamics); RATS; SECRETORY RATE (drug effects); STEREOISOMERS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

King MP

ADRENERGIC NEUROHORMONS IN THE HEART OF HAMSTERS WITH HEREDITARY MYOPATHY DURING CARDIAC HYPERTROPHY AND FAILURE. Angelakos ET, Caballo LC, Daniels JB, King MP, Bajusz E *Recent Adv Stud Cardiac Struct Metab* 1: 262-78, 1972 (Eng) *DL/77FEB641

King-Roach AP

THE EFFECTS OF MAZINDOL AND 46-034 (SANDOZ) ON GLUCOSE OXIDATION AND INSULIN BINDING BY RAT ISOLATED FAT CELLS. Harrison LC, King-Roach AP *Clin Exp Pharmacol Physiol* 3: 503-6, Sep-Oct 76 (Eng) DL/77FEB46

Kinoshita JH

INHIBITION OF LENS ALDOSE REDUCTASE BY FLAVONOIDS--THEIR POSSIBLE ROLE IN THE PREVENTION OF DIABETIC CATARACTS. Varma SD, Kinoshita JH *Biochem Pharmacol* 25: 2505-13, 15 NOV 76 (Eng) DL/77FEB514

Kirby MJ

STUDIES WITH FLUTIOREX, A NEW ANORECTIC DRUG, ON GLUCOSE UPTAKE INTO HUMAN ISOLATED SKELETAL MUSCLE. Kirby MJ, Carageorgiou-Markomihalakis H, Turner P *Br J Clin Pharmacol* 2: 541-2, Dec 75 (Eng) DL/77FEB6

APPETITE DEPRESSANTS

(pharmacodynamics); COMPARATIVE STUDY; DOSE-RESPONSE RELATIONSHIP, DRUG; FENFLURAMINE (analogs & derivatives, pharmacodynamics); GLUCOSE (metabolism); HUMAN; IN VITRO; INSULIN (pharmacodynamics); MUSCLES (metabolism); STEREOISOMERS.

EFFECT OF SOME RECEPTOR ANTAGONISTS ON FENFLURAMINE-INDUCED GLUCOSE UPTAKE INTO THE ISOLATED RAT HEMIDIAPHRAGM [PROCEEDINGS]. Kirby MJ, Turner P *Br J Pharmacol* 58: 286p-287p, Oct 76 (Eng) DL/77FEB18

ANIMAL; ATROPINE (pharmacodynamics); DIAPHRAGM (metabolism); FENFLURAMINE (pharmacodynamics); GLUCOSE (metabolism); HALOPERIDOL (pharmacodynamics); IN VITRO; INSULIN (pharmacodynamics); METHYLERGIDE (pharmacodynamics);

PROPRANOLOL (pharmacodynamics);
PYRILAMINE (pharmacodynamics); RATS;
THYMOXAMINE (pharmacodynamics).

Kirk RD

STUDIES WITH THE AUTOTRANSPLANTED
OVINE PANCREAS: GLUCAGON AND INSU-
LIN SECRETION. Arcus AC, Ellis MJ, Kirk RD,
Beaven DW, Donald RA, Hart DS, Holland GW,
Redekopp C *Aust J Biol Sci* 29: 223-36, Jul 76
(Eng) DL/77FEB496

Kirsteins L

SALIVARY GLAND GLUCAGON IN MAN AND
ANIMALS. Lawrence AM, Tan S, Hojvat S,
Kirsteins L, Mitten J *Metabolism* 25: 1405-8,
Nov 76 (Eng) DL/77FEB284

Kissebah AH

THE METABOLIC FATE OF PLASMA
LIPOPROTEINS IN NORMAL SUBJECTS
AND IN PATIENTS WITH INSULIN RE-
SISTANCE AND ENDOGENOUS HYPER-
TRIGLYCERIDAEMIA. Kissebah AH, Alfarsi S,
Adams PW, Wynn V *Diabetologia* 12: 501-9, Oct
76 (Eng) DL/77FEB119

ADULT; APOLIPOPROTEINS (blood);
DIABETES MELLITUS (blood); HUMAN;
HYPERLIPEMIA (blood); INSULIN
RESISTANCE; LIPODYSTROPHY (blood);
LIPOPROTEINS (blood); LIPOPROTEINS, LDL
(blood); LIPOPROTEINS, VLDL (blood); MALE;
MIDDLE AGE; TRIGLYCERIDES (blood).

Kjellstrand CM

SPECIAL PROBLEMS IN DIABETIC RENAL
TRANSPLANTATION. Simmons RL, Payne
WD, Sutherland DE, Howard RJ, Goetz FC, Bar-
bosa J, Kjellstrand CM, Najarian JS *Urol Clin
North Am* 3: 691-9, Oct 76 (Eng) DL/77FEB424

Klebe RJ

CARBOHYDRATE PREFERENCES OF MAM-
MALIAN CELLS. Burns RL, Rosenberger PG,
Klebe RJ *J Cell Physiol* 88: 307-16, July 76 (Eng)
*DL/77FEB576

Klein I

EARLY CHANGES IN ACUTE CARDIAC OVER-
LOAD: STUDIES ON ADENYL CYCLASE AC-
TIVITY, CYCLIC 35-AMP, AND MYOSIN
SYNTHESIS. Schreiber SS, Klein I, Oratz M,
Evans C, Gueyikian I, Rothschild MA *Recent
Adv Stud Cardiac Struct Metab* 1: 44-58, 1972
(Eng) *DL/77FEB645

Klopper R

[TRANSPORT AND UTILIZATION OF AL-
DITOLS IN THE YEAST RHODOTORULA
GRACILIS GLUTINIS (AUTHORS TRANSL.)]
Klopper R, Hofer M *Arch Microbiol* 107: 329-34,
1 Apr 76 (Ger) *DL/77FEB706

BIOLOGICAL TRANSPORT, ACTIVE;
ENGLISH ABSTRACT; GLUCOSE (metabolism);
MONILIALES (metabolism); RHODOTORULA
(metabolism); SUGAR ALCOHOLS
(metabolism); XYLOSE (metabolism).

[TRANSPORT AND UTILIZATION OF AL-
DITOLS IN THE YEAST RHODOTORULA
GRACILIS GLUTINIS (AUTHORS TRANSL.)]
Klopper R, Hofer M *Arch Microbiol* 107: 335-42,
1 Apr 76 (Ger) *DL/77FEB707

BIOLOGICAL TRANSPORT, ACTIVE;
ENGLISH ABSTRACT; ENZYME INDUCTION;
ENZYME REPRESSION; GLUCOSE
(pharmacodynamics); MONILIALES
(metabolism); MONOSACCHARIDES
(pharmacodynamics); PROTONS;
RHODOTORULA (enzymology, metabolism);
SUGAR ALCOHOLS (metabolism).

Knight BL

PROTEIN KINASES AND THEIR SUBSTRATES
IN BROWN ADIPOSE TISSUE FROM NEW-
BORN RATS. Knight BL *Biochim Biophys Acta*
429: 798-808, 13 May 76 (Eng) *DL/77FEB521

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE
(pharmacodynamics); ADENOSINE
TRIPHOSPHATE (metabolism); ANIMAL
EXPERIMENTS (analysis); ANIMALS,
NEWBORN; BROWN FAT (enzymology);
CYTOSOL (enzymology); HISTONE KINASE
(metabolism); KINETICS; PROTEIN KINASE
(isolation & purification, metabolism); PROTEINS
(metabolism); RATS.

Knorr D

MEAN 24-HOUR GROWTH HORMONE AND
TESTOSTERONE CONCENTRATIONS IN
RELATION TO PUBERTAL GROWTH SPURT
IN BOYS WITH NORMAL OR DELAYED PU-
BERTY. Butenandt O, Eder R, Wohlfarth K,
Bidingmaier F, Knorr D *Eur J Pediatr* 122: 85-
92, 4 May 76 (Eng) *DL/77FEB551

Knowles G

THE ACTION OF THE EXCRETORY AP-
PARATUS OF CALLIPHORA VOMITORIA IN
HANDLING INJECTED SUGAR SOLUTION.
Knowles G *J Exp Biol* 64: 131-40, Feb 76 (Eng)
*DL/77FEB596

AMARANTH (metabolism); ANIMAL
EXPERIMENTS (analysis); CLOACA
(physiology); DIPTERA (physiology); DIURESIS;
FLIES (physiology); GLUCOSE (metabolism);
MALE; MALPIGHIAN TUBULES (metabolism,
physiology); SORBOSE (metabolism); SUCROSE
(metabolism); TREHALOSE (metabolism);
XYLOSE (metabolism).

Kobayashi R

STUDIES ON CYCLIC GMP-DEPENDENT
PROTEIN KINASE PROPERTIES BY BLUE
DEXTRAN-SEPHAROSE CHROMATO-
GRAPHY. Kobayashi R, Fang VS *Biochem
Biophys Res Commun* 69: 1080-7, 19 Apr 76
(Eng) *DL/77FEB716

ADENOSINE TRIPHOSPHATE
(pharmacodynamics); ANIMAL EXPERIMENTS
(analysis); BINDING SITES; CATTLE;
CHROMATOGRAPHY, AFFINITY; DEXTRAN;
ENZYME ACTIVATION (drug effects);
GUANOSINE CYCLIC 3,5 MONOPHOSPHATE
(pharmacodynamics); KINETICS; LUNG
(enzymology); MAGNESIUM
(pharmacodynamics); PROTEIN BINDING;
PROTEIN KINASE (isolation & purification,
metabolism).

Koch HR

[THE INFLUENCE OF CORTISOL TREAT-
MENT ON THE DEVELOPMENT OF
DIABETIC CATARACTS IN RATS (AUTHORS
TRANSL.)] Koch HR, Hillenbink M, Liappis N
Albrecht von Graefes Arch Klin Ophthalmol 200:
211-22, 1976 (Ger) DL/77FEB482

ANIMAL; BODY WEIGHT (drug effects);
CATARACT (etiology, prevention & control);
DIABETES MELLITUS (chemically induced,
complications); ENGLISH ABSTRACT;
FEMALE; GLUCOSE (metabolism);
HYDROCORTISONE (pharmacodynamics);
RATS; STREPTOZOTOCIN (antagonists &
inhibitors).

Koch KS

PRESENT PARADOXES IN THE ENVIRON-
MENTAL CONTROL OF HEPATIC
PROLIFERATION. Leffert HL, Koch KS, Ru-
balcava B *Cancer Res* 36: 4250-5, Nov 76 (Eng)
DL/77FEB38

CONTROL OF HEPATIC PROLIFERATION: A
WORKING HYPOTHESIS INVOLVING HORM-
ONES, LIPOPROTEINS, AND NOVEL
NUCLEOTIDES. Koch KS, Leffert HL *Metabol-
ism* 25: 1419-22, Nov 76 (Eng) DL/77FEB287

ANIMAL; CHICK EMBRYO; DOGS; DNA
(biosynthesis); GLUCAGON (blood); INSULIN
(blood); LIPOPROTEINS, VLDL (biosynthesis);
LIVER (growth & development, metabolism);
MODELS, BIOLOGICAL; PURINE

NUCLEOTIDES (biosynthesis); RATS;
TRIIODOTHYRONINE (pharmacodynamics).

Koelsch R

[PROTEIN HYDROLYSIS BY IMMOBILIZED
ENZYMES] Lasch J, Koelsch R, Roth P, Gabert
A, Marquardt I, Hanson H *Acta Biol Med Ger* 35:
735-43, 1976 (Ger) DL/77FEB452

Koerner F

DIABETIC RETINOPATHY STUDY. PRELIMI-
NARY RESULTS FROM 215 PATIENTS
TREATED UNIOcularly WITH
PHOTOCOAGULATION. Koerner F, Schlegel
D, Koerner U *Albrecht von Graefes Arch Klin
Ophthalmol* 200: 99-111, 30 Aug 76 (Eng)
DL/77FEB480

AGE FACTORS; AGED; DIABETIC
RETINOPATHY (complications, pathology,
surgery); FEMALE; FOLLOW-UP STUDIES;
FUNDUS OCULI; HUMAN; LIGHT
COAGULATION; MACULA LUTEA
(pathology); MALE; MIDDLE AGE; RETINAL
HEMORRHAGE (etiology); RETINAL VESSELS
(pathology); VISUAL ACUITY.

Koerner U

DIABETIC RETINOPATHY STUDY. PRELIMI-
NARY RESULTS FROM 215 PATIENTS
TREATED UNIOcularly WITH
PHOTOCOAGULATION. Koerner F, Schlegel
D, Koerner U *Albrecht von Graefes Arch Klin
Ophthalmol* 200: 99-111, 30 Aug 76 (Eng)
DL/77FEB480

Kogut ES

[USE OF TRASYLOL IN DIABETIC
KETOACIDOSIS] Zelinskii BA, Kogut ES *Vrach
Delo* 78-80, Sep 76 (Rus) DL/77FEB429

Kohner EM

DETERIORATION IN GLUCOSE TOLERANCE
FOLLOWING PROLONGED DIURETIC
TREATMENT FOR HYPERTENSION
[PROCEEDINGS]. Lewis PJ, Dollery CT,
Kohner EM, Petrie A *Br J Clin Pharmacol* 2:
375p, Aug 75 (Eng) DL/77FEB5

Koizumi K

PEPTIC ULCER IN DIABETES MELLITUS.
Masuda H, Inoue S, Arakawa H, Koizumi K,
Kubo N *Gastroenterol Jpn* 11: 1-4, 1976 (Eng)
DL/77FEB128

Kojima S

INTESTINAL ABSORPTION CHARAC-
TERISTICS OF BUFORMIN AND PHENFOR-
MIN IN RATS. Kojima S, Tanaka R, Hamada C
Chem Pharm Bull (Tokyo) 24: 1555-60, Jul 76
(Eng) DL/77FEB42

ANIMAL; BIGUANIDES (metabolism);
BUFORMIN (metabolism); IN VITRO;
INTESTINAL ABSORPTION; INTESTINAL
MUCOSA (metabolism); INTESTINE, SMALL
(metabolism); MALE; PHENFORMIN
(metabolism); RATS.

Koke JR

INHIBITED ADENINE NUCLEOTIDE TRANS-
LOCATION IN MITOCHONDRIA ISOLATED
FROM ISCHEMIC MYOCARDIUM. Bittar N,
Shug AL, Koke JR, Folts JD, Shrago ES *Recent
Adv Stud Cardiac Struct Metab* 7: 137-43, 1975
(Eng) *DL/77FEB658

Kokina LP

[RELATIONSHIP BETWEEN HORMONE CON-
CENTRATION IN PERIPHERAL BLOOD IN
HYPERTENSION, ARTERIOSCLEROSIS AND
OBESITY] Kokina LP, Lyskova MN, Tkacheva
GA, Gabunia RI, Syzgantseva LM *Ter Arkh* 48:
81-4, 1976 (Rus) DL/77FEB410

ADULT; ALDOSTERONE (blood);
ARTERIOSCLEROSIS (blood); ENGLISH
ABSTRACT; FEMALE; HORMONES (blood);

Diabetes Literature—Author Index

Kokot F

HUMAN; HYDROCORTISONE (blood);
HYPERTENSION (blood); INSULIN (blood);
MALE; OBESITY (blood); THYROXINE (blood).

Kokot F

THE ENDOCRINE SYSTEM IN PATIENTS
WITH ACUTE RENAL INSUFFICIENCY.
Kokot F, Kuska J *Kidney Int [Suppl]* 10: 826-31,
Oct 76 (Eng) DL/77FEB23

ALDOSTERONE (blood); ANURIA (blood);
BLOOD SUGAR (analysis); CREATININE
(blood); ELECTROLYTES (blood);
ENDOCRINE GLANDS (secretion);
HEMODIALYSIS; HORMONES (blood);
HUMAN; INSULIN (blood); KIDNEY FAILURE,
ACUTE (blood); OLIGURIA (blood);
PARATHYROID HORMONE (blood); RENIN
(blood); SOMATOTROPIN (blood).

Komatsu M

KINETICS OF PROTEIN SYNTHESIS AND
RELEASE IN THE STH-CELL OF THE
MOUSE ANTERIOR PITUITARY AS
REVEALED BY ELECTRON MICROSCOPIC
AUTORADIOGRAPHY OF 3H-AMINO ACIDS.
Hiura M, Komatsu M, Fujita H *Arch Histol Jpn*
38: 347-57, Feb 76 (Eng) *DL/77FEB709

Kompiang IP

EFFECT OF HYPOPHYSECTOMY AND INSU-
LIN ON LIPOGENESIS IN COCKERELS.
Kompiang IP, Gibson WR *Horm Metab Res* 8:
340-5, Sep 76 (Eng) DL/77FEB138

ACETYL COA CARBOXYLASE (metabolism);
ANIMAL; CHICKENS; FATTY ACIDS
(biosynthesis); GLUCOSE (metabolism);
HYPOPHYSECTOMY; IN VITRO; INSULIN
(blood, pharmacodynamics); LIVER (drug effects,
metabolism); MALE; PITUITARY GLAND
(physiology).

Kondo Y

ORAL GLUCOSE TOLERANCE TEST IN THE
CYNOMOLGUS MONKEY (MACACA
FASCICULARIS). Honjo S, Kondo Y, Cho F
Lab Anim Sci 26: 771-6, Oct 76 (Eng)
DL/77FEB231

Konovalova LK

[ROLE OF DIFFERENT REGIONS OF THE
HYPOTHALAMUS IN REGULATING THE
HYPOPHYSAL-ADRENAL CORTEX
SYSTEM IN RATS] Konovalova LK *Probl Endo-
kriinol (Mosk)* 22: 58-62, 1976 (Rus)
*DL/77FEB622

ADRENAL CORTEX HORMONES (blood);
ADRENAL CORTEX (physiology); ADRENAL
GLANDS; ANIMAL EXPERIMENTS (analysis);
ELECTRIC STIMULATION; ELECTRODES,
IMPLANTED; ENGLISH ABSTRACT;
HYPOTHALAMUS (physiology);
HYPOTHALAMUS, ANTERIOR (physiology);
HYPOTHALAMUS, MEDIAL (physiology);
HYPOTHALAMUS, POSTERIOR (physiology);
MALE; ORGAN WEIGHT; PITUITARY-
ADRENAL SYSTEM (physiology); RATS; TIME
FACTORS.

Konu V

[CARDIAC INFARCTION IN THE ELDERLY]
Konu V *Duodecim* 92: 1028-34, 1976 (Fin)
DL/77FEB65

ADULT; AGE FACTORS; AGED; DIABETES
MELLITUS (complications); ENGLISH
ABSTRACT; FEMALE; FINLAND; HUMAN;
MALE; MIDDLE AGE; MYOCARDIAL
INFARCT (etiology, mortality, occurrence).

Kordowiak A

THE LEVEL AND COMPOSITION OF SEROMU-
COID AND NONDISSOLUBLE SERUM
SUGAR-PEPTIDE FRACTION COMPARED
WITH THE ACTIVITY OF GALACTOSYL
TRANSFERASE (EC 2.4.1.38) OF LIVER
GOLGI MEMBRANES IN INSULIN-TREATED

RATS. Guzdek A, Kordowiak A, Sarnecka-
Keller M *Clin Chim Acta* 72: 393-9, 1 Nov 76
(Eng) DL/77FEB43

Korecky B

THE HORMONAL RESTORATION OF THE IN-
TRINSIC CONTRACTILE FUNCTION OF
THE ATROPHIC HEARTS OF HYPOPHYSEC-
TOMIZED RATS. Korecky B, Taichman GC,
Minelli R, Beznak M *Recent Adv Stud Cardiac
Struct Metab* 1: 71-80, 1972 (Eng)
*DL/77FEB651

ANIMAL EXPERIMENTS (analysis); ATROPHY
(physiopathology); CORONARY DISEASE
(physiopathology); DISEASE MODELS,
ANIMAL; ELASTICITY; HEART (drug effects,
physiopathology); HYPOPHYSECTOMY; IN
VITRO; MALE; MYOCARDIAL
CONTRACTION (drug effects); RATS;
SOMATOTROPIN (pharmacodynamics);
THYROXINE (pharmacodynamics).

Kornzeig AL

DIABETIC RETINOPATHY: PATHOGENESIS
AND PREVENTION. Kornzeig AL *Compr Ther*
2: 58-63, Nov 76 (Eng) DL/77FEB54
AGED; DIABETIC RETINOPATHY (pathology,
prevention & control); FEMALE; HUMAN;
MALE; UNITED STATES GOVERNMENT
SUPPORTED, N.I.H.).

Koschinsky T

A MECHANISM BY WHICH HIGH-DENSITY
LIPOPROTEINS MAY SLOW THE
ATHEROGENIC PROCESS. Carew TE,
Koschinsky T, Hayes SB, Steinberg D *Lancet* 1:
1315-7, 19 Jun 76 (Eng) *DL/77FEB607

Koslowski JM

DIABETIC RETINOPATHY AND PROLACTIN
[LETTER]. Harter M, Balarac N, Pourcher P,
Koslowski JM, Krebs B, Ramaoli A *Lancet* 2:
961-2, 30 Oct 76 (Eng) DL/77FEB248

Koster JF

CYCLIC NUCLEOTIDE-, PYRUVATE- AND
HORMONE-INDUCED CHANGES IN PYRU-
VATE KINASE ACTIVITY IN ISOLATED RAT
HEPATOCYTES. van Berkel TJ, Kruijt JK,
Koster JF, Hulsmann WC *Biochem Biophys Res
Commun* 72: 917-25, 4 Oct 76 (Eng)
DL/77FEB511

Kostyo JL

THE BIOLOGY OF GROWTH HORMONE.
Kostyo JL, Reagan CR *Pharmacol Ther [B]* 2:
591-604, 1976 (Eng) [110] DL/77FEB362
ANIMAL; CARTILAGE (metabolism);
DIABETES MELLITUS (chemically induced);
DOGS; HUMAN; IN VITRO; INSULIN
(physiology); LIPIDS (metabolism); LIVER
(metabolism); MONKEYS; MUSCLE PROTEINS
(metabolism); PROTEINS (metabolism); RATS;
REVIEW; SOMATOTROPIN (adverse effects,
physiology).

Kosunen K

PHYSICAL ACTIVITY AND HORMONES. Adler-
creutz H, Harkonen M, Kuoppasalmi K, Kosunen
K, Naveri H, Rehunen S *Adv Cardiol* 18: 144-57,
1976 (Eng) DL/77FEB461

Kotschy M

[BLOOD CLOTTING AND FIBRINOLYTIC AC-
TIVITY AND PLATELET CHANGES IN
CHRONIC PERIPHERAL ARTERIAL INSUF-
FICIENCY] Kaniak J, Kotschy M, Kurzawska M,
Włodarczyk J, Prastowski W *Pol Tyg Lek* 31:
1757-60, 11 Oct 76 (Pol) DL/77FEB350

Koval VH

[SPECTROSCOPIC STUDIES ON THE SELF-AS-
SOCIATION MECHANISM OF BIOMEM-
BRANE LIPID COMPONENTS AND THEIR
INTERACTION WITH WATER AND AL-

COHOLS IN A NON-POLAR MEDIUM] Koval
VH *Ukr Biokhim Zh* 47: 505-9, Jul-Aug 75 (Ukr)
*DL/77FEB681

ATHEROSCLEROSIS; BINDING SITES;
CALORIMETRY; CHOLESTEROL; ENGLISH
ABSTRACT; LECITHINS; LIPIDS;
MEMBRANES, ARTIFICIAL; MODELS,
BIOLOGICAL; THERMODYNAMICS; WATER.

Kowarski A

BLOOD GLUCOSE MONITORING IN SYMPTO-
MATIC HYPOGLYCEMIA. Cole RA, Benedict
GW, Margolis S, Kowarski A *Diabetes* 25: 984-8,
Oct 76 (Eng) DL/77FEB108

Kraicer J

MECHANISM OF ACTION OF HYPOTHALAM-
IC RELEASING HORMONES. ROLE OF IONS
IN THE RELEASE OF ADENOHYPOTHALAMIC
HORMONES. PP. 207-15. Kraicer J *In: Leders
K, Cooper KE, ed. Recent studies of hypothalamic
function. Basel, Karger, 1974. WL 312 165r 1973.
(Eng) [18] *DL/77FEB591*

ANIMAL EXPERIMENTS (analysis);
BIOLOGICAL TRANSPORT; CALCIUM
(metabolism, physiology); CELL MEMBRANE
PERMEABILITY; CORTICOTROPIN
(secretion); HYPOTHALAMUS (physiology); IN
VITRO; IONS; MEMBRANE POTENTIALS;
MONOGRAPH (mortality); PITUITARY
GLAND, ANTERIOR (physiology); PITUITARY
HORMONE RELEASING HORMONES
(pharmacodynamics); PITUITARY HORMONES,
ANTERIOR (secretion); POTASSIUM
(metabolism, physiology); RATS; REVIEW;
SODIUM (metabolism, physiology).

Kral JG

SURGICAL REDUCTION OF ADIPOSE TISSUE
IN THE MALE SPRAGUE-DAWLEY RAT. Kral
JG *Am J Physiol* 231: 1090-6, Oct 76 (Eng)
DL/77FEB475

ADIPOSE TISSUE (cytology, physiology, surgery);
ANIMAL; BLOOD SUGAR (metabolism); BODY
COMPOSITION; BODY WEIGHT;
CHOLESTEROL (metabolism); ENERGY
METABOLISM; FATTY ACIDS,
NONESTERIFIED (metabolism); FEEDING
BEHAVIOR; GLYCERIN (metabolism);
INSULIN (metabolism); LIPIDS (metabolism);
MALE; RATS; TRIGLYCERIDES (metabolism).

Krause G

CYCLIC AMP LEVELS IN THE ACUTELY
ISCHEMIC MYOCARDIUM OF THE DOG
AND GUINEA PIG. Wollenberger A, Krause G,
Heier G *Recent Adv Stud Cardiac Struct Metab* 1:
27-9, 1972 (Eng) DL/77FEB642

Krebs B

DIABETIC RETINOPATHY AND PROLACTIN
[LETTER]. Harter M, Balarac N, Pourcher P,
Koslowski JM, Krebs B, Ramaoli A *Lancet* 2:
961-2, 30 Oct 76 (Eng) DL/77FEB248

Kremer IuN

[CURRENT STATUS OF THE PROBLEM OF
SECURING THE ENERGY REQUIREMENTS
OF A PATIENT BY THE PARENTERAL
ROUTE] Kremer IuN, Vitolina SP *Vopr Pitan* 7:
16, Sep-Oct 76 (Rus) [101] DL/77FEB427

ALCOHOL, ETHYL (administration & dosage);
ALCOHOLS (administration & dosage);
BUTANEDIOLS (administration & dosage);
ENERGY METABOLISM; FRUCTOSE
(administration & dosage, metabolism);
GLUCOSE (administration & dosage); HUMAN;
HYPERTONIC SOLUTIONS; INSULIN
(secretion); ISLANDS OF LANGERHANS
(secretion); LIPIDS (administration & dosage);
NUTRITION; NUTRITIONAL
REQUIREMENTS; PARENTERAL FEEDING
(adverse effects); PARENTERAL
HYPERALIMENTATION; REVIEW; SORBITOL
(administration & dosage); XYLITOL
(administration & dosage).

Krug E

THE CONTRIBUTION OF THE PANCREAS AND THE INTESTINE TO THE REGULATION OF LIPOLYSIS IN BIRDS. 2. IMPAIRED LIPOLYTIC ACTIVITY OF PANCREATIC GLUCAGON IN THE ABSENCE OF EITHER THE PANCREAS OR THE INTESTINE IN THE CHICKEN. Krug E, Gross R, Mialhe P *Horm Metab Res* 8: 345-50, Sep 76 (Eng) DL/77FEB139

ADIPOSE TISSUE (drug effects, metabolism); ANIMAL; BLOOD SUGAR (metabolism); CHICKENS; COMPARATIVE STUDY; DUCKS; DUODENUM (physiology); FASTING; GLUCAGON (pharmacodynamics); IN VITRO; INTESTINE, SMALL (physiology); LIPID MOBILIZATION (drug effects); PANCREAS (physiology); PANCREATCTOMY; SPECIES SPECIFICITY.

Kruijt JK

CYCLIC NUCLEOTIDE-, PYRUVATE- AND HORMONE-INDUCED CHANGES IN PYRUVATE KINASE ACTIVITY IN ISOLATED RAT HEPATOCYTES. van Berkel TJ, Kruijt JK, Koster JF, Hulsman WC *Biochem Biophys Res Commun* 72: 917-25, 4 Oct 76 (Eng) DL/77FEB511

Kralich L

CONTROL OF GONADOTROPIN AND PROLACTIN SECRETION BY HYPOTHALAMIC RELEASING AND INHIBITING HORMONES. PP. 80-9. McCann SM, Cooper K, Harms PG, Libertun C, Negro-Vilar A, Ojeda SR, Orias R, Moss RL, Fawcett CP, Kralich L, Gilon C, Amoss M, Rivier C, Ling N, Burgus R, Guillemain R *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function. Basel, Karger, 1974. WL 312 165r 1973. (Eng) *DL/77FEB589*

Krum S

HYPOGLYCEMIA AND HYPOINSULINEMIA ASSOCIATED WITH HEPATOMA IN A DOG. Strombeck DR, Krum S, Meyer D, Kappesser RM *J Am Vet Med Assoc* 169: 811-2, 15 Oct 76 (Eng) DL/77FEB152

Kraty F

MYOCARDIAL CELL DAMAGE DUE TO ETHANOL. Gvozdzak A, Borovic F, Bada V, Kruty F, Niederland TR, Gvozdzak J *Recent Adv Stud Cardiac Struct Metab* 7: 451-7, 1975 (Eng) *DL/77FEB675

Krziemien K

URETHANE-INDUCED HYPERGLYCEMIA IN RATS. Krziemien K, Lipowska-Zabawska I. *Acta Physiol Pol* 27: 369-76, Jul-Aug 76 (Eng) DL/77FEB458

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism, urine); ADRENALECTOMY; ANIMAL; BLOOD SUGAR; EPINEPHRINE (blood); FATTY ACIDS, NONESTERIFIED (blood); GLYCOSURIA (chemically induced); HYPERGLYCEMIA (blood, chemically induced); HYPOPHYSECTOMY; LIVER (metabolism); MALE; NOREPINEPHRINE (blood); PHENOBARBITAL (pharmacodynamics); RATS; URETHANE (pharmacodynamics).

Krzywanek HJ

ON THE MEASUREMENT OF SPONTANEOUS PLATELET AGGREGATION. THE PLATELET AGGREGATION TEST III. METHODS AND FIRST CLINICAL RESULTS. Breddin K, Grun H, Krzywanek HJ, Schremmer WP *Thromb Haemostas* 35: 669-91, 30 Jun 76 (Eng) DL/77FEB412

Kubek A

[HORMONAL DISORDERS IN A PATIENT WITH MORGAGNI-MOREL-STEWART SYNDROME] Hrycek A, Kubek A, Grabski J, Kalina Z *Wiad Lek* 29: 1673-6, 15 Sep 76 (Pol) DL/77FEB432

Kubo N

PEPTIC ULCER IN DIABETES MELLITUS. Masuda H, Inoue S, Arakawa H, Koizumi K, Kubo N *Gastroenterol Jpn* 11: 1-4, 1976 (Eng) DL/77FEB128

Kuhn E

[METABOLIC EFFECT OF ADMINISTRATION OF GLUCAGON AND A COMBINATION OF GLUCAGON AND FRUCTOSE TO PATIENTS WITH CIRRHOSIS OF THE LIVER AND TO HEALTHY SUBJECTS (AUTHORS TRANSL)] Brodanova M, Brodan V, Andel M, Kuhn E *Sk Lek* 78: 218-24, Aug 76 (Cze) DL/77FEB390

Kuku SF

HETEROGENEITY OF PLASMA GLUCAGON IN MAN. Jasan JB, Kuku SF, Locker JD, Huen A, Emmanouel DS, Katz AI, Rubenstein AH *Metabolism* 25: 1397-401, Nov 76 (Eng) DL/77FEB282

Kuleshov EV

[CHARACTERISTICS OF THYROTOXICOSIS ASSOCIATED WITH DIABETES MELLITUS] Kuleshov EV *Khirurgiya (Mosk)* 83-7, Sep 76 (Rus) DL/77FEB226

ADOLESCENCE; ADULT; AGED; DIABETES MELLITUS (blood, complications); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPERTHYROIDISM (blood, complications); MALE; MIDDLE AGE.

Kuo E

CIRCADIAN PATTERN OF PROLACTIN AND GROWTH HORMONE LEVELS IN FEMALE RATS OF TWO STRAINS. Esber HJ, Kuo E, Bogden AE *Lab Anim Sci* 26: 186-9, Apr 76 (Eng) *DL/77FEB604

Kuoppasalmi K

PHYSICAL ACTIVITY AND HORMONES. Adlercreutz H, Harkonen M, Kuoppasalmi K, Kosunen K, Naveri H, Rehnun S *Adv Cardiol* 18: 144-57, 1976 (Eng) DL/77FEB461

Kurzwaska M

[BLOOD CLOTTING AND FIBRINOLYTIC ACTIVITY AND PLATELET CHANGES IN CHRONIC PERIPHERAL ARTERIAL INSUFFICIENCY] Kaniak J, Kotschy M, Kurzwaska M, Włodarczyk J, Prastowski W *Pol Tyg Lek* 31: 1757-60, 11 Oct 76 (Pol) DL/77FEB350

Kusa O

[DIABETES MELLITUS AS RISK FACTOR OF ISCHEMIC HEART DISEASE AND REFLECTED IN SERUM LIPID LEVELS.] Kusa O *Bratisl Lek Listy* 66: 28-37, 1 Jul 76 (Slo) DL/77FEB35

CORONARY DISEASE (blood, etiology); DIABETES MELLITUS (complications); DIABETIC ANGIOPATHIES (blood); ENGLISH ABSTRACT; FEMALE; HUMAN; LIPIDS (blood); MALE; MIDDLE AGE.

Kusakabe T

THYROTOXIC PERIODIC PARALYSIS: A PECULIAR CASE WITH UNUSUAL DYSTONIC BEHAVIOR AND VARIABLE RELATIONS OF PARALYSIS TO SERUM POTASSIUM LEVELS. Kusakabe T, Yoshida M, Nishikawa M *J Clin Endocrinol Metab* 43: 730-40, Oct 76 (Eng) DL/77FEB167

BLOOD SUGAR (metabolism); CALCIUM (blood); CASE REPORT; DIETARY CARBOHYDRATES; EPINEPHRINE (diagnostic use); GLUCOSE (diagnostic use); HUMAN; HYPERTHYROIDISM (blood, complications, drug therapy); INSULIN (blood); IODINE (therapeutic use); MALE; MIDDLE AGE; PARALYSIS (blood, drug therapy, etiology); PHOSPHATES (blood); POTASSIUM CHLORIDE (diagnostic use); POTASSIUM (blood); SODIUM CHLORIDE (diagnostic use); SODIUM (blood).

Kuska J

THE ENDOCRINE SYSTEM IN PATIENTS WITH ACUTE RENAL INSUFFICIENCY. Kokot F, Kuska J *Kidney Int [Suppl]* 10: 826-31, Oct 76 (Eng) DL/77FEB223

Kutty MK

SERUM INSULIN SECRETION BY ADULT MALAYSIANS. Jones JJ, Aimalt PP, Owyong LY, Kutty MK *Med J Malaysia* 30: 285-6, Jun 76 (Eng) DL/77FEB318

Kuvacic I

INSULIN TREATMENT OF GESTATIONAL DIABETICS. Drazancic A, Kuvacic I *Acta Med Lugosl* 30: 341-53, 1976 (Eng) DL/77FEB459

Kuzuya N

[A STUDY OF ROENTGENOLOGIC AORTIC CALCIFICATION, GLUCOSE TOLERANCE, AND INSULIN SECRETORY RESPONSE (AUTHORS TRANSL)] Tanaka T, Seki A, Fujii J, Kuzuya N *Jpn Soc Intern Med* 65: 569-74, 10 Jun 76 (Jpn) DL/77FEB195

Kuzuya T

HUMAN C-PEPTIDE IMMUNOREACTIVITY (CPR) IN BLOOD AND URINE - EVALUATION OF A RADIOIMMUNOASSAY METHOD AND ITS CLINICAL APPLICATIONS. Kuzuya T, Saito T, Yoshida S, Matsuda A *Diabetologia* 12: 511-8, Oct 76 (Eng) DL/77FEB120

ANTIGEN-ANTIBODY REACTIONS; BLOOD SUGAR (analysis); C-PEPTIDE (blood, metabolism, urine); DIABETES MELLITUS (drug therapy, metabolism); DIABETES MELLITUS, JUVENILE (metabolism); GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (analysis, therapeutic use); PEPTIDES (metabolism); RADIOIMMUNOASSAY (methods).

DISAPPEARANCE RATE OF ENDOGENOUS HUMAN C-PEPTIDE FROM BLOOD. Kuzuya T, Matsuda A *Diabetologia* 12: 519-21, Oct 76 (Eng) DL/77FEB121

C-PEPTIDE (blood); COMPARATIVE STUDY; GLUCAGON (pharmacodynamics); GLUCOSE (pharmacodynamics); HALF-LIFE; HUMAN; INSULIN (blood); PEPTIDES (blood).

Labadie P

[GLUCOSE-ALANINE CYCLE] Labadie P *Rev Prat* 26: 3023-30, 1 Oct 76 (Fre) DL/77FEB379

ALANINE (metabolism); DIABETES MELLITUS (metabolism); FASTING; GLUCOSE (metabolism); HUMAN; LIVER (metabolism); MUSCLES (metabolism).

Lacy WW

AN IMPORTANT ROLE FOR GLUCAGON IN THE REGULATION OF GLUCOSE PRODUCTION IN VIVO. Liljenquist JE, Chiassan JL, Cherrington AD, Keller U, Jennings AS, Bomboy JD, Lacy WW *Metabolism* 25: 1371-3, Nov 76 (Eng) DL/77FEB276

Lam V

ADRENALINE-INDUCED DESENSITIZATION OF LIVER ADENYLATE CYCLASE. Lam V, Bar HP *Biochem Pharmacol* 25: 2103-4, 15 Sep 76 (Eng) DL/77FEB513

ADENYL CYCLASE (metabolism); ANIMAL; DEPRESSION, CHEMICAL; EPINEPHRINE (pharmacodynamics); GLUCAGON (pharmacodynamics); IN VITRO; LIVER (drug effects, enzymology); RATS; TIME FACTORS.

Landauer B

[FATTY ACID PATTERN OF LIPID FRACTIONS IN THE BLOOD. II. CONTROL PERSONS] Lohninger A, Weigl K, Riedl W, Heinkelmann W, Tolle W, Schlag G, Landauer B, Blumel G *Med Welt* 27: 923-6, 7 May 76 (Ger) *DL/77FEB609

Langley PE

Langley PE

THE EFFECT OF ALPHA AND BETA ADRENERGIC RECEPTOR STIMULATION ON THE ADENYLATE CYCLASE ACTIVITY OF HUMAN ADIPOCYTES. Burns TW, Langley PE *J Cyclic Nucleotide Res* 1: 321-8, 1975 (Eng) *DL/77FEB579

Lasch J

[PROTEIN HYDROLYSIS BY IMMOBILIZED ENZYMES] Lasch J, Koelsch R, Roth P, Gabert A, Marquardt I, Hanson H *Acta Biol Med Ger* 35: 735-43, 1976 (Ger) DL/77FEB452
AMINOPEPTIDASES (metabolism); CARBOXYPEPTIDASES (metabolism); ENGLISH ABSTRACT; HYDROLYSIS; INSULIN (metabolism); LEUCINE; MURAMIDASE (metabolism); PEPTIDE HYDROLASES (metabolism); PROTEINS (metabolism); SEPHAROSE; SERUM ALBUMIN, BOVINE (metabolism); TRYPSIN.

Laszlo F

FUNCTION OF THE HYPOTHALAMUS AND CLINICAL ASPECTS. Laszlo F *Ther Hung* 24: 43-9, 1976 (Eng) DL/77FEB411
ANIMAL; CLOFIBRATE (therapeutic use); DIABETES INSIPIDUS (drug therapy); DIURETICS (therapeutic use); HUMAN; HYPOGLYCEMIC AGENTS (therapeutic use); HYPOTHALAMUS (physiology); LH-FSH RELEASING HORMONE (pharmacodynamics, physiology); RATS; THYROTROPIN RELEASING HORMONE (pharmacodynamics, physiology); VASOPRESSIN (physiology).

Latruffe N

[EFFECT OF VARIOUS INHIBITORS ON OXIDATIVE ACTIVITY AND ULTRASTRUCTURE OF RAT LIVER MITOCHONDRIA] Latruffe N, Lenys D, Gaudemer Y, Bugnon C *C R Soc Biol (Paris)* 169: 1290-5, 1975 (Fre) *DL/77FEB529
ANIMAL EXPERIMENTS (analysis); ANTIMYCIN A (pharmacodynamics); CARBONYL CYANIDE M-CHLOROPHENYL HYDRAZONE (pharmacodynamics); ENGLISH ABSTRACT; ETHACRYNIC ACID (pharmacodynamics); IN VITRO; MITOCHONDRIA, LIVER (drug effects, metabolism, ultrastructure); OXYGEN CONSUMPTION (drug effects); PHOSPHATES (pharmacodynamics); RATS; ROTENONE (pharmacodynamics); SUCCINATES (metabolism).

Laube H

INSULIN SECRETION AND BIOSYNTHESIS IN SUCROSE FED RATS. Laube H, Schatz H, Nierle C, Fussganger R, Pfeiffer EF *Diabetologia* 12: 441-6, Oct 76 (Eng) DL/77FEB112
ADIPOSE TISSUE; ANIMAL; BODY COMPOSITION (drug effects); DIETARY CARBOHYDRATES; GLUCOSE (pharmacodynamics); INSULIN (metabolism); MALE; RATS; STARCH (pharmacodynamics); SUCROSE (pharmacodynamics).

Laursen PA

[BLOOD GLUCOSE LEVELS IN PATIENTS ON HEMODIALYSIS DURING PROPRANOLOL (INDERAL) TREATMENT] Jensen HA, Laursen PA, Moller BB *Ugeskr Laeger* 138: 2956-7, 15 Nov 76 (Dan) DL/77FEB418

Lauterjung KL

EFFECT ON MYOCARDIAL METABOLIC PATTERN OF LOCAL COMPLETE AND INCOMPLETE ISCHEMIA. Isselhard W, Geppert E, Menge M, Lauterjung KL, Vogel W, Witte J, Heugel F *Recent Adv Stud Cardiac Struct Metab* 7: 231-6, 1975 (Eng) *DL/77FEB664

Diabetes Literature—Author Index

Lawecki J

[HIGH-PROTEIN BREAD FOR DIABETICS] Rojszykowska E, Szelnerowa T, Banecki H, Lawecki J *Pol Tyg Lek* 31: 1729-31, 4 Oct 76 (Pol) DL/77FEB348

Lawrence AM

SALIVARY GLAND GLUCAGON IN MAN AND ANIMALS. Lawrence AM, Tan S, Hojvat S, Kirsteins L, Mitton J *Metabolism* 25: 1405-8, Nov 76 (Eng) DL/77FEB284
ANIMAL; ARGININE (pharmacodynamics); DOGS; GLUCAGON (immunology, isolation & purification); GLUCOSE (pharmacodynamics); HUMAN; MICE; RABBITS; RATS; SUBMANDIBULAR GLAND (analysis, drug effects).

Lazarow A

FOETAL RAT PANCREAS IN ORGAN CULTURE. EFFECT OF CORTICOSTERONE CONCENTRATIONS ON THE ACINAR AND ISLET CELL COMPONENTS. McEvoy RC, Hegre OD, Lazarow A *Differentiation* 6: 17-26, 16 Mar 76 (Eng) DL/77FEB125

Lazarus L

SEROTONINERGIC CONTROL OF HUMAN GROWTH HORMONE SECRETION: THE ACTIONS OF L-DOPA AND 2-BROMO-ALPHA-ERGOCRYPTINE. PP. 222-35. Smythe GA, Compton PJ, Lazarus L *Ino Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381* 1975. (Eng) DL/77FEB189

GROWTH HORMONE IN EXERCISE: COMPARISON OF PHYSIOLOGICAL AND PHARMACOLOGICAL STIMULI. Sutton J, Lazarus L *Biochem J* 157: 523-7, 1 Sep 76 (Eng) DL/77FEB498

Le Cam A

GLUCAGON STIMULATES THE A SYSTEM FOR NEUTRAL AMINO ACID TRANSPORT IN ISOLATED HEPATOCYTES OF ADULT RAT. Le Cam A, Freychet P *Biochem Biophys Res Commun* 72: 893-901, 4 Oct 76 (Eng) DL/77FEB510
AMINO ACIDS (metabolism); AMINOISOBUTYRIC ACID (metabolism); ANIMAL; BIOLOGICAL TRANSPORT; CYCLOHEXIMIDE (pharmacodynamics); CYCLOLEUCINE (metabolism); DIBUTYRYL CYCLIC AMP (pharmacodynamics); GLUCAGON (pharmacodynamics); IN VITRO; KINETICS; LIVER (drug effects, metabolism); MALE; RATS.

Lea AJ

CANCER MORTALITY AND SACCHARIN CONSUMPTION IN DIABETICS. Armstrong B, Lea AJ, Adelstein AM, Donovan JW, White GC, Ruttle S *Br J Prev Soc Med* 30: 151-7, Sep 76 (Eng) DL/77FEB19

Leake R

ROLE OF GLUCAGON IN PERINATAL GLUCOSE HOMEOSTASIS. Sperling MA, Grawner LA, Leake R, Fisher DA *Metabolism* 25: 1385-6, Nov 76 (Eng) DL/77FEB279

Leclercq-Meyer V

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltz C, Leclercq-Meyer V, Mialhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77FEB86

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL)] Leclercq-Meyer V, Malaisse WJ *Diabete Metab* 1: 119-22, Jun 75 (Fre) DL/77FEB93

ANIMAL; BLOOD SUGAR (metabolism); CATECHOLAMINES (physiology); ELECTROSHOCK; ENGLISH ABSTRACT; EPINEPHRINE (pharmacodynamics); EXERTION; GLUCAGON (secretion); GLUCOSE (pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, secretion); RATS; STRESS (physiopathology); SWIMMING; TIME FACTORS.

THE ROLE OF CALCIUM IN GLUCAGON RELEASE, INTERACTIONS BETWEEN GLUCOSE AND CALCIUM. Leclercq-Meyer V, Marchand J, Malaisse WJ *Diabetologia* 12: 531-8, Oct 76 (Eng) DL/77FEB124
ANIMAL; CALCIUM (pharmacodynamics); DRUG INTERACTIONS; FEMALE; GLUCAGON (secretion); GLUCOSE (pharmacodynamics); IN VITRO; INSULIN (secretion); PERFUSION; RATS.

Lecourtier MJ

[EFFECT OF UNSATURATED DIETARY FATS ON GROWTH AND LIPOGENESIS IN RATS] Demarne Y, Tourne M, Flanz J, Lecourtier MJ *Nutr Metab* 19: 28-40, 1975 (Fre) *DL/77FEB615

Lefebvre PJ

INFLUENCE OF METFORMIN ON ARGININE-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ *Diabete Metab* 1: 23-8, Mar 75 (Eng) DL/77FEB84

EFFECT OF SOMATOSTATIN ON METABOLIC AND HORMONAL CHANGES INDUCED BY NICOTINIC ACID IN INSULIN-DEPENDENT DIABETICS. Luyckx AS, Lefebvre PJ *Diabetologia* 12: 447-53, Oct 76 (Eng) DL/77FEB113

GLUCAGON AND GASTRIN RELEASE BY THE ISOLATED PERFUSED DOG STOMACH IN RESPONSE TO ARGININE. Lefebvre PJ, Luyckx AS, Brassinne AH, Nizet AH *Metabolism* 25: 1447-9, Nov 76 (Eng) DL/77FEB294
ANIMAL; ARGININE (diagnostic use); DOGS; GASTRIC MUCOSA (drug effects, secretion); GASTRIN (secretion); GLUCAGON (secretion); PANCREAS (physiology).

Lefer AM

LACK OF A SIGNIFICANT PROTECTIVE EFFECT OF AUGMENTED CIRCULATING GLUCOSE ON THE ISCHEMIC MYOCARDIUM. Spath JA, Ogletree ML, Lefer AM *Can J Physiol Pharmacol* 54: 423-9, Aug 76 (Eng) DL/77FEB36

Leffert HL

PRESENT PARADOXES IN THE ENVIRONMENTAL CONTROL OF HEPATIC PROLIFERATION. Leffert HL, Koch KS, Rubalcava B *Cancer Res* 36: 4250-5, Nov 76 (Eng) DL/77FEB38

ANIMAL; DNA (biosynthesis); GLUCAGON (physiology); INSULIN (physiology); LIPOPROTEINS, VLDL (blood); LIVER REGENERATION; NUCLEOTIDES, CYCLIC (physiology); ORGAN SPECIFICITY; RATS; RECEPTORS, HORMONE; THYROID HORMONES (physiology).

CONTROL OF HEPATIC PROLIFERATION: A WORKING HYPOTHESIS INVOLVING HORMONES, LIPOPROTEINS, AND NOVEL NUCLEOTIDES. Koch KS, Leffert HL *Metabolism* 25: 1419-22, Nov 76 (Eng) DL/77FEB287

Lefkowitz RJ

ADIPOCYTE BETA-ADRENERGIC RECEPTORS. IDENTIFICATION AND SUBCELLULAR LOCALIZATION BY [3H]DIHYDROALPRENOLOL BINDING. Williams LT, Jarett L, Lefkowitz RJ *J Biol Chem* 251: 3096-104, 25 May 76 (Eng) *DL/77FEB572

Legrain M

[INTERCAPILLARY GLOMERULOSCLEROSIS] Jacobs C, Legrain M *Rev Prat* 26: 3133-44, 11 Oct 76 (Fre) DL/77FEB385

Lemonnier D

METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E *Diabete Metab* 1: 77-85, Jun 75 (Eng) DL/77FEB95

ADIPOSE TISSUE (cytology, metabolism); ANIMAL: BLOOD SUGAR; BODY WEIGHT; CELL COUNT; DIAPHRAGM; DIETARY FATS; FASTING; FEMALE; GLUCOSE (metabolism, pharmacodynamics); INSULIN (blood, pharmacodynamics); LIPIDS (metabolism); LIPOPROTEIN LIPASE (analysis); LIVER (metabolism); MALE; MICE; MUSCLES (metabolism); MYOCARDIUM (enzymology); OBESITY (metabolism); ORGAN WEIGHT; SEX FACTORS.

Lendrum R

SEPARATE AUTOANTIBODIES TO HUMAN PANCREATIC GLUCAGON AND SOMATOSTATIN CELLS. Bottazzo GF, Lendrum R *Lancet* 2: 873-6, 23 Oct 76 (Eng) DL/77FEB244

Lentz DE

EFFECT OF POTASSIUM AND HYPOMAGNESEMIA ON INSULIN IN THE BOVINE. Lentz DE, Madsen FC, Miller JK, Hansard SL *J Anim Sci* 43: 1082-7, Nov 76 (Eng) DL/77FEB154

ANIMAL: BLOOD SUGAR (analysis); CALCIUM (blood); CATTLE DISEASES (blood); CATTLE; FEMALE; INSULIN (blood); MAGNESIUM DEFICIENCY (blood, veterinary); MAGNESIUM (blood); MALE; POTASSIUM (blood); PREGNANCY; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Lenys D

[EFFECT OF VARIOUS INHIBITORS ON OXIDATIVE ACTIVITY AND ULTRASTRUCTURE OF RAT LIVER MITOCHONDRIA] Latruffe N, Lenys D, Gaudemer Y, Bugnon C *C R Soc Biol (Paris)* 169: 1290-5, 1975 (Fre) *DL/77FEB529

Lenzen S

THE INHIBITION OF INSULIN SECRETION FROM THE PERFUSED RAT PANCREAS AFTER THYROXINE TREATMENT. Lenzen S, Joost HG, Hasselblatt A *Diabetologia* 12: 495-500, Oct 76 (Eng) DL/77FEB118

ANIMAL: GLUCOSE; GLYCERALDEHYDE; IN VITRO: INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, secretion); KETO ACIDS (metabolism); MALE; MANNOSIDE; PERFUSION; RATS; THYROXINE (pharmacodynamics); TOLBUTAMIDE.

Leopold NA

GROWTH HORMONE RELEASE IN HUNTINGTONS DISEASE. PP. 252-60. Podolsky S, Leopold NA *Ino Picelle A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB181*

Lerner J

EFFECTS OF NA⁺ & DEPLETION, THEOPHYLLINE AND 2,4-DINITROPHENOL ON NEUTRAL AMINO ACID INFLUX AND CYCLIC ADENOSINE 3',5'-MONOPHOSPHATE LEVELS IN CHICKEN SMALL INTESTINE. Burrill PH, Sattelmeyer PA, Lerner J *Comp Biochem Physiol [C]* 53: 93-9, 1976 (Eng) *DL/77FEB543

Lerner RL

HYPERINSULINEMIA AND HYPERGLUCAGONEMIA FOLLOWING PANCREATIC ISLET TRANSPLANTATION IN DIABETIC RATS. Weber CJ, Hardy MA, Lerner RL, Felip P, Recmsma K *Diabetes* 25: 944-8, Oct 76 (Eng) DL/77FEB101

Lesbros F

[GANGLIOCYTIC PARAGANGLIOMA OF THE DUODENUM. ONE CASE WITH ELECTRON MICROSCOPE STUDY (AUTHORS TRANSL)] Kermarec J, Duplay H, Lesbros F *Arch Anat Cytol Pathol* 24: 261-8, 1976 (Fre) DL/77FEB492

Lestrade F

[LONG-TERM PROGNOSIS OF INFANTILE DIABETES (EDITORIAL)] Lestrade H, Besse J, Billaud L, Battistelli F, Tric F, Lestrade F *Nouv Presse Med* 6: 2297-8, 23 Oct 76 (Fre) DL/77FEB345

Lestrade H

[LONG-TERM PROGNOSIS OF INFANTILE DIABETES (EDITORIAL)] Lestrade H, Besse J, Billaud L, Battistelli F, Tric F, Lestrade F *Nouv Presse Med* 6: 2297-8, 23 Oct 76 (Fre) DL/77FEB345

DIABETES MELLITUS, JUVENILE (diagnosis, history); HISTORICAL ARTICLE; HUMAN; INFANT; PROGNOSIS; TIME FACTORS.

Levin ME

THE DIABETIC FOOT. Levin ME *J Am Podiatry Assoc* 66: 825-39, Nov 76 (Eng) DL/77FEB174

AMPUTATION; BACTERIAL INFECTIONS (complications); DIABETES MELLITUS (therapy); DIABETIC ANGIOPATHIES (complications, pathology, physiopathology); DIABETIC NEUROPATHIES (complications); FOOT DISEASES (etiology, pathology, physiopathology); GANGRENE; HEMOSTASIS; HUMAN.

Levine BB

EFFECTS OF IODOACETATE AND FLUORIDE ON ISLATE RESPIRATION AND INSULIN BIOSYNTHESIS. Lin BJ, Henderson MJ, Levine BB, Nagy BR, Nagy EM *Horm Metab Res* 8: 353-8, Sep 76 (Eng) DL/77FEB141

Levy J

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabete Metab* 1: 7-11, Mar 75 (Eng) DL/77FEB90

INSULIN RELEASE AND THE MOVEMENTS OF CALCIUM IN PANCREATIC ISLETS. PP. 211-26. Malaisse WJ, Herchuelz A, Levy J, Somers G, Devis G *Ino Carafoli E, et al., ed. Calcium transport in contraction and secretion. Amsterdam, North-Holland, 1975. QV 276 161c 1975. (Eng) DL/77FEB179*

Levy-Toledano S

[ABNORMALITIES IN PRIMARY HEMOSTASIS DURING DIABETIC MICROANGIOPATHY] Bensoussan D, Levy-Toledano S, Passa P *Acad Rev* 5: 2383-6, 30 Oct 76 (Fre) DL/77FEB457

Lewis L

A MODEL FOR THERAPEUTIC INTERVENTIONS ON ESTABLISHED CORONARY ATHEROSCLEROSIS IN A NONHUMAN PRIMATE. Malinow MR, McLaughlin O, Papworth L, Naito HK, Lewis L, McNulty WP *Adv Exp Med Biol* 67: 3-31, 1976 (Eng) *DL/77FEB694

Lewis PJ

DETERIORATION IN GLUCOSE TOLERANCE FOLLOWING PROLONGED DIURETIC TREATMENT FOR HYPERTENSION

[PROCEEDINGS]. Lewis PJ, Dollery CT, Kohner EM, Petrie A *Br J Clin Pharmacol* 2: 375p, Aug 75 (Eng) DL/77FEB5

COMPARATIVE STUDY; DIURETICS (adverse effects, therapeutic use); FOLLOW-UP STUDIES; GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); HUMAN; HYPERTENSION (drug therapy, metabolism).

Li CH

HUMAN PITUITARY GROWTH HORMONE: RESTORATION OF FULL BIOLOGICAL ACTIVITY BY NONCOVALENT INTERACTION OF TWO FRAGMENTS OF THE HORMONE. Li CH, Bewley TA *Proc Natl Acad Sci USA* 73: 1476-9, May 76 (Eng) *DL/77FEB623

ANTIGENIC DETERMINANTS; BIOLOGICAL ASSAY; CIRCULAR DICHROISM; FIBRINOLYSIS; HUMAN; PROLACTIN (physiology); PROTEIN CONFORMATION; SOMATOTROPIN (analysis, immunology, physiology); STRUCTURE-ACTIVITY RELATIONSHIP.

Liappis N

[THE INFLUENCE OF CORTISOL TREATMENT ON THE DEVELOPMENT OF DIABETIC CATARACTS IN RATS (AUTHORS TRANSL)] Koch HR, Hillenblom M, Liappis N *Abrecht von Graefes Arch Klin Ophthalmol* 200: 211-22, 1976 (Ger) DL/77FEB482

Libertun C

CONTROL OF GONADOTROPIN AND PROLACTIN SECRETION BY HYPOTHALAMIC RELEASING AND INHIBITING HORMONES. PP. 80-9. McCann SM, Cooper K, Harms PG, Libertun C, Negro-Vilar A, Ojeda SR, Orias R, Moss RL, Fawcett CP, Krulich L, Gilon C, Amoss M, Rivier C, Ling N, Burgus R, Guillemin R *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function. Basel, Karger, 1974. WL 312 165r 1973. (Eng) *DL/77FEB589*

Lickley L

THE ROLE OF GLUCAGON-INSULIN INTERACTIONS IN CONTROL OF GLUCOSE TURNOVER AND ITS SIGNIFICANCE IN DIABETES. Vranic M, Ross G, Doi K, Lickley L *Metabolism* 25: 1375-80, Nov 76 (Eng) DL/77FEB277

Lidgard G

EFFECT OF THE HISTAMINE H₂-RECEPTOR ANTAGONIST, CIMETIDINE, ON GASTRIC SECRETION AND SERUM GASTRIN DURING INSULIN INFUSION IN MAN. Carter DC, Forrest JA, Logan RA, Ansell I, Lidgard G, Heading RC, Shearman DJ *Scand J Gastroenterol* 11: 565-70, 1976 (Eng) DL/77FEB393

Lightman NI

ACUTE PYELONEPHRITIS SIMULATING POORLY VASCULARIZED RENAL NEOPLASM. NON-SPECIFICITY OF ANGIOGRAPHIC CRITERIA. Barth KH, Lightman NI, Ridolfi RL, Catalona WJ *J Urol* 116: 650-2, Nov 76 (Eng) DL/77FEB216

Liljenquist JE

AN IMPORTANT ROLE FOR GLUCAGON IN THE REGULATION OF GLUCOSE PRODUCTION IN VIVO. Liljenquist JE, Chiasson JL, Cherrington AD, Keller U, Jennings AS, Bomboy JD, Lacy WW *Metabolism* 25: 1371-3, Nov 76 (Eng) DL/77FEB276

ANIMAL: DIABETES MELLITUS (metabolism); DOGS: GLUCAGON (pharmacodynamics); GLUCOSE (metabolism); HUMAN; INSULIN (pharmacodynamics); LIVER (drug effects, metabolism); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Diabetes Literature—Author Index

Lin BJ

Lin BJ

EFFECTS OF IODOACETATE AND FLUORIDE ON ISLATE RESPIRATION AND INSULIN BIOSYNTHESIS. Lin BJ, Henderson MJ, Levine BB, Nagy BR, Nagy EM *Horm Metab Res* 8: 353-8, Sep 76 (Eng) DL/77FEB141

ANIMAL; FLUORIDES (pharmacodynamics); GLUCOSE (metabolism); IN VITRO; INSULIN (biosynthesis); IODOACETATES (pharmacodynamics); ISLANDS OF LANGERHANS (drug effects, metabolism); MALE; OXYGEN CONSUMPTION (drug effects); PYRUVATES (metabolism); RATS.

Lin MC

EFFECTS OF IODINATION OF TYROSYL RESIDUES ON THE BINDING AND ACTION OF GLUCAGON AT ITS RECEPTOR. Lin MC, Nicosia S, Rodbell M *Biochemistry* 15: 4537-40, 5 Oct 76 (Eng) DL/77FEB9

ANIMAL; BINDING, COMPETITIVE; CELL MEMBRANE (metabolism); GLUCAGON (metabolism); HYDROGEN-ION CONCENTRATION (physiology); IODOPROTEINS (metabolism); KINETICS; LIVER (metabolism); RATS; RECEPTORS, HORMONE (metabolism).

SEMISYNTHETIC GLUCAGON DERIVATIVES FOR STRUCTURE-FUNCTION STUDIES. Hruby VJ, Wright DE, Lin MC, Rodbell M *Metabolism* 25: 1323-5, Nov 76 (Eng) DL/77FEB266

Linde B

OXYGEN UPTAKE AND TISSUE OXYGEN TENSION DURING ADRENERGIC STIMULATION IN CANINE SUBCUTANEOUS ADIPOSE TISSUE. Fredholm BB, Linde B, Prewitt RL, Johnson PC *Acta Physiol Scand* 97: 48-59, Mar 76 (Eng) *DL/77FEB590

Ling GN

STUDIES ON INSULIN ACTION. V. STRUCTURAL REQUIREMENTS OF PRIMERS FOR SUBSEQUENT ACCUMULATION OF D-GLUCOSE AT 0 DEGREES C IN INSULINIZED FROG MUSCLES. Ling GN, Will S *Physiol Chem Phys* 8: 115-24, 1976 (Eng) DL/77FEB364

ANIMAL; BINDING, COMPETITIVE; CARBOHYDRATES (pharmacodynamics); COLD; GLUCOSE (metabolism); INSULIN (pharmacodynamics); MUSCLES (drug effects, metabolism); RANA PIPIENS; STRUCTURE-ACTIVITY RELATIONSHIP; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Ling N

CONTROL OF ANTERIOR PITUITARY HORMONE SECRETION. HYPOTHALAMIC PEPTIDES AND THEIR INTERACTIONS. PP. 180-95. Grant G, Vale W, Brazeau P, Rivier J, Monahan M, Gilon C, Amoss M, Rivier C, Ling N, Burgess R, Guillemain R *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function.* Basel, Karger, 1974. WL 312 165r 1973. (Eng) [39] *DL/77FEB588

Lipowska-Zabawska L

URETHANE-INDUCED HYPERGLYCEMIA IN RATS. Krzemien K, Lipowska-Zabawska L *Acta Physiol Pol* 27: 369-76, Jul-Aug 76 (Eng) DL/77FEB458

Lis M

MULTIPOTENT LIPOTROPIC HORMONES. IN SEARCH OF A PITUITARY CELL PRODUCING MULTIPOTENT LPH. Furth J, Chretien M, Lis M, Belanger A, Moy P, Grauman J *Arch Pathol* 99: 572-81, Nov 75 (Eng) *DL/77FEB710

Lister J

MODE OF PRESENTATION OF JUVENILE DIABETES. Hamilton DV, Mundia SS, Lister J *Br Med J* 2: 211-2, 24 Jul 76 (Eng) DL/77FEB20

Litchfield WJ

INHIBITORY ACTION OF D-GALACTOSE ON PHAGOCYTE METABOLISM AND FUNCTION. Litchfield WJ, Wells WW *Infect Immun* 13: 728-34, Mar 76 (Eng) *DL/77FEB564

ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE MONOPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS (analysis); BLOOD BACTERICIDAL ACTIVITY (drug effects); ESCHERICHIA COLI (growth & development, metabolism); GALACTOSE (pharmacodynamics); GUINEA PIGS; HUMAN; MACROPHAGES (metabolism); NEUTROPHILS (metabolism); PHAGOCYTES (metabolism, physiology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Litricin O

[PREVENTION OF BLINDNESS] Litricin O *Nar Zdrav* 31: 189-91, Jul-Aug 75 (Ser) DL/77FEB327

ADULT; BLINDNESS (etiology, prevention & control); CATARACT (complications); DIABETIC RETINOPATHY (complications); FEMALE; GLAUCOMA (complications); HUMAN; INFANT, NEWBORN; PREGNANCY; RETINITIS PIGMENTOSA (complications); WORLD HEALTH ORGANIZATION).

Liuzzi A

NEUROENDOCRINE CONTROL OF GROWTH HORMONE SECRETION: EXPERIMENTAL AND CLINICAL STUDIES. PP. 236-51. Liuzzi A, Panerai AE, Chiodini PG, Secchi C, Cocchi D, Botalla L, Silvestrini F, Muller EE *Ino Picelle A, Muller EE, ed. Growth hormone and related peptides.* Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB185

ACROMEGALY (blood); ANIMAL; DOGS; ERGOTOXINE (diagnostic use); FEMALE; HUMAN; HYPOGLYCEMIA (blood); INSULIN (diagnostic use); KINETICS; LEVODOPA (mortality); PIMOZIDE (diagnostic use, pharmacodynamics); PLACEBOS; RATS; RECEPTORS, DOPAMINE (physiology); SEROTONIN (metabolism); SOMATOTROPIN (blood); SPECIES SPECIFICITY; TIME FACTORS; TRYPTOPHAN (diagnostic use); 2-BROMOERGOCRYPTINE (diagnostic use, pharmacodynamics).

Livesley B

LIPID METABOLISM AND ISCHAEMIC HEART DISEASE IN THE ELDERLY. Horsey J, Livesley B *Age Ageing* 5: 75-83, May 76 (Eng) *DL/77FEB699

Locker JD

HETEROGENEITY OF PLASMA GLUCAGON IN MAN. Jaspas JB, Kuku SF, Locker JD, Huen A, Emmanouel DS, Katz AI, Rubenstein AH *Metabolism* 25: 1397-401, Nov 76 (Eng) DL/77FEB282

Loeb H

[COMPARISON OF VARIOUS SEMI-QUANTITATIVE TESTS FOR DETERMINATION OF URINARY GLUCOSE IN DIABETICS (AUTHORS TRANSL)] Dorchy H, Loeb H *Diabete Metab* 1: 87-9, Jun 75 (Fre) DL/77FEB96

Logan RA

EFFECT OF THE HISTAMINE H2-RECEPTOR ANTAGONIST, CIMETIDINE, ON GASTRIC SECRETION AND SERUM GASTRIN DURING INSULIN INFUSION IN MAN. Forrest DC, Forrest JA, Logan RA, Ansell I, Lidgard G, Heading

RC, Shearman DJ *Scand J Gastroenterol* 11: 565-70, 1976 (Eng) DL/77FEB393

Lohninger A

[FATTY ACID PATTERN OF LIPID FRACTIONS IN THE BLOOD. II. CONTROL PERSONS] Lohninger A, Weigl K, Riedl W, Heinkelmann W, Tolle W, Schlag G, Landauer B, Blumel G *Med Welt* 27: 923-6, 7 May 76 (Ger) *DL/77FEB609

ADULT; FATTY ACIDS (blood); FATTY ACIDS, NONESTERIFIED (blood); HUMAN; LINOLEIC ACIDS (blood); LIPIDS (blood).

London DR

LUTEINIZING RELEASE HORMONE TESTS IN IMPOTENT DIABETIC MALES. Wright AD, London DR, Holder G, Williams JW, Rudd BT *Diabetes* 25: 975-7, Oct 76 (Eng) DL/77FEB106

Londos C

REGULATION OF HEPATIC ADENYLATE CYCLASE BY GLUCAGON, GTP, DIVALENT CATIONS, AND ADENOSINE. Rodbell M, Londos C *Metabolism* 25: 1347-9, Nov 76 (Eng) DL/77FEB271

Loppnow H

[PATHOGENESIS OF SPONTANEOUS DIABETES MELLITUS IN THE CAT. II. ACIDOPHILIC ADENOMA OF THE PITUITARY GLAND AND DIABETES MELLITUS IN 2 CASES] Gemhardt C, Loppnow H *Berl Munch Tierarztl Wochenschr* 89: 336-40, 1 Sep 76 (Ger) DL/77FEB497

Lorenzi M

EFFECTS OF ACUTE INSULIN WITHDRAWAL AND ADMINISTRATION ON PLASMA GLUCAGON RESPONSES TO INTRAVENOUS ARGININE IN INSULIN-DEPENDENT DIABETIC SUBJECTS. Gerich JE, Lorenzi M, Tsalkian E, Bohannon NV, Schneider V, Karam JH, Forsham PH *Diabetes* 25: 955-60, Oct 76 (Eng) DL/77FEB103

Loriaux C

[HIGH RISK FACTORS OF BREAST CANCER] Hardy A, Loriaux C *J Gynecol Obstet Biol Reprod (Paris)* 5: 657-73, Jul - Aug 76 (Fre) [89] DL/77FEB177

Loubatieres AL

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77FEB83

ADMINISTRATION, ORAL; AMMONIA (blood); ANIMAL; COMPARATIVE STUDY; CONVULSIONS (chemically induced); DOGS; DOSE-RESPONSE RELATIONSHIP, DRUG; ENGLISH ABSTRACT; FEMALE; GLIBENCLAMIDE (pharmacodynamics); GLIPIZIDE (administration & dosage); GLISOXEPIDE (pharmacodynamics); INJECTIONS, INTRAVENOUS; INSULIN (blood); ISLANDS OF LANGERHANS (drug effects, growth & development, secretion); MICE; PURINE-PYRIMIDINE METABOLISM, INBORN ERRORS (metabolism); RATS; TIME FACTORS; TOLBUTAMIDE (pharmacodynamics).

Loubatieres-Mariani MM

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77FEB83

Low H

HORMONE REGULATED REDOX FUNCTION IN PLASMA MEMBRANES. Low H, Crane FL *FEBS Lett* 68: 157-9, 1 Oct 76 (Eng) DL/77FEB77

ADIPOSE TISSUE (enzymology); ANIMAL; CELL MEMBRANE (drug effects, enzymology); CORTICOTROPIN (pharmacodynamics); GLUCAGON (pharmacodynamics); KINETICS; LIVER (enzymology); NADH, NADPH OXIDOREDUCTASES (metabolism); QUINACRINE (pharmacodynamics); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Lubbe W

ESTIMATED GLYCOLYTIC FLUX IN INFARCTING HEART. Opie LH, Owen P, Lubbe W *Recent Adv Stud Cardiac Struct Metab* 7: 249-55, 1975 (Eng) *DL/77FEB666

Lubetzk J

[HYPOGLYCEMIC MEDICATIONS AND VASCULAR COMPLICATIONS OF DIABETES MELLITUS. CURRENT CONTROVERSY] Lubetzk J *Rev Prat* 26: 3173-83, 11 Oct 76 (Fre) DL/77FEB388

DIABETIC ANGIOPATHIES (prevention & control); ENGLISH ABSTRACT; HUMAN; HYPOGLYCEMIC AGENTS (therapeutic use); INSULIN (therapeutic use).

Lucke H

EFFECT OF CHRONIC GLUCAGON-ADMINISTRATION ON THE DIGESTIVE AND ABSORPTIVE FUNCTION OF RAT SMALL INTESTINE IN VIVO. Caspary WF, Lucke H *Res Exp Med (Berl)* 167: 1-13, 27 Feb 76 (Eng) DL/77FEB373

Ludwig H

[HL-A SYSTEM AND DIABETES MELLITUS] Scherthaner G, Ludwig H, Eibl M, Erd W, Pacher M, Mayr WR *Schweiz Med Wochenschr* 106: 514-7, 10 Apr 76 (Ger) DL/77FEB394

Lue PF

STUDIES ON ALLOSTERIC PHENOMENA IN GLYCOGEN PHOSPHORYLASE B. Madsen NB, Avramovic-Zikic O, Lue PF, Honikel KO *Mol Cell Biochem* 11: 35-50, 26 Mar 76 (Eng) [59] *DL/77FEB613

Luft R

POTENTIATION OF GLUCOSE-INDUCED INSULIN RELEASE BY GLUCOSE IN THE ISOLATED PANCREAS OF FED AND FASTED RATS. Efendic S, Cerasi E, Luft R, Gladnikoff G *Diabetes* 25: 949-54, Oct 76 (Eng) DL/77FEB102

SOMATOSTATIN, A HORMONE OF THE ALPHA I-CELLS OF THE PANCREATIC ISLETS AND ITS INFLUENCE ON THE SECRETION OF INSULIN AND GLUCAGON. PP. 216-21. Efendic S, Hokfelt T, Luft R *In: Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB190*

Lukaszewska J

EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL AND GROWTH HORMONE LEVELS IN YOUNG WEIGHT LIFTERS] Lukaszewska J, Biczowa B, Bobilewicz D, Wilk M, Obuchowicz-Fidels B *Endokrynol Pol* 27: 149-57, Mar-Apr 76 (Pol) *DL/77FEB549

ADOLESCENCE; AGE FACTORS; ENGLISH ABSTRACT; EXERTION; HUMAN; HYDROCORTISONE (blood); MALE; SOMATOTROPIN (blood); SPORT MEDICINE; WEIGHT LIFTING.

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL, TESTOSTERONE AND

GROWTH HORMONE LEVELS IN WEIGHT LIFTERS] Skierska E, Ustupka J, Biczowa B, Lukaszewska J *Endokrynol Pol* 27: 159-65, Mar-Apr 76 (Pol) *DL/77FEB550

Lutz W

[BIOCHEMICAL AND CLINICAL ASPECTS OF MYOINOSITOL] Trznadel K, Lutz W *Pol Tyg Lek* 31: 1857-9, 25 OCT 76 (Pol) [27] DL/77FEB351

Luyckx AS

INFLUENCE OF METFORMIN ON ARGININE-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ *Diabete Metab* 1: 23-8, Mar 75 (Eng) DL/77FEB84

EFFECT OF SOMATOSTATIN ON METABOLIC AND HORMONAL CHANGES INDUCED BY NICOTINIC ACID IN INSULIN-DEPENDENT DIABETICS. Luyckx AS, Lefebvre PJ *Diabetologia* 12: 447-53, Oct 76 (Eng) DL/77FEB113

BLOOD SUGAR (metabolism); DIABETES MELLITUS (blood, drug therapy); DRUG INTERACTIONS; FATTY ACIDS, NONESTERIFIED (blood); GLUCAGON (blood); HEPARIN (pharmacodynamics); HUMAN; HYDROCORTISONE (blood); INSULIN (therapeutic use); NICOTINIC ACIDS (pharmacodynamics); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); SOMATOTROPIN (blood); TRIGLYCERIDES (pharmacodynamics).

GLUCAGON AND GASTRIN RELEASE BY THE ISOLATED PERFUSED DOG STOMACH IN RESPONSE TO ARGININE. Lefebvre PJ, Luyckx AS, Brassinne AH, Nizet AH *Metabolism* 25: 1447-9, Nov 76 (Eng) DL/77FEB294

Luzio JP

A RAPID IMMUNOLOGICAL PROCEDURE FOR THE ISOLATION OF HORMONALLY SENSITIVE RAT FAT-CELL PLASMA MEMBRANE. Luzio JP, Newby AC, Hales CN *Biochem J* 154: 11-21, 15 Jan 76 (Eng) *DL/77FEB714

ADENYL CYCLASE (analysis); ADIPOSE TISSUE (analysis); ADSORPTION; ANIMAL EXPERIMENTS (analysis); ANTIBODIES; CELL FRACTIONATION (methods); CELL MEMBRANE (enzymology); EPIDIDYMIS (analysis); IGG; IMMUNOLOGIC TECHNIQS; MALE; NUCLEOTIDASES (analysis); RATS.

Lyskova MN

[RELATIONSHIP BETWEEN HORMONE CONCENTRATION IN PERIPHERAL BLOOD IN HYPERTENSION, ARTERIOSCLEROSIS AND OBESITY] Kokina LP, Lyskova MN, Tkacheva GA, Gabuniia RI, Syzgantseva LM *Ter Arkh* 48: 81-4, 1976 (Rus) DL/77FEB410

Maca R

MODIFICATION OF CELLULAR LIPID METABOLISM BY PSYCHOLOGICAL STRESS. Rose KD, Ursick J, Maca R *Recent Adv Stud Cardiac Struct Metab* 1: 729-41, 1972 (Eng) *DL/77FEB653

Madsen FC

EFFECT OF POTASSIUM AND HYPOMAGNESEMIA ON INSULIN IN THE BOVINE. Lentz DE, Madsen FC, Miller JK, Hansard SL *J Anim Sci* 43: 1082-7, Nov 76 (Eng) DL/77FEB154

Madsen NB

STUDIES ON ALLOSTERIC PHENOMENA IN GLYCOGEN PHOSPHORYLASE B. Madsen NB, Avramovic-Zikic O, Lue PF, Honikel KO *Mol Cell Biochem* 11: 35-50, 26 Mar 76 (Eng) [59] *DL/77FEB613

ADENOSINE MONOPHOSPHATE (pharmacodynamics); ALLOSTERIC

REGULATION; ALLOSTERIC SITE; ANIMAL EXPERIMENTS (analysis); CALORIMETRY; ENZYME ACTIVATION (drug effects); GLUCOSEPHOSPHATES (pharmacodynamics); GLYCOGEN PHOSPHORYLASE (metabolism); KINETICS; PHOSPHATES, INORGANIC (pharmacodynamics); PROTEIN BINDING; REVIEW; THERMODYNAMICS.

Maehlum S

ARTERIAL-HEPATIC VEIN GLUCOSE DIFFERENCES IN NORMAL AND DIABETIC MAN AFTER A GLUCOSE INFUSION AT REST AND AFTER EXERCISE. Maehlum S, Jervell J, Pruett ED *Scand J Clin Lab Invest* 36: 415-22, Sep 76 (Eng) DL/77FEB391

ADOLESCENCE; ADULT; BLOOD SUGAR (metabolism); DIABETES MELLITUS, JUVENILE (blood, physiopathology); EXERTION; FATTY ACIDS, NONESTERIFIED (blood); GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); HEPATIC ARTERY; HEPATIC VEINS; HUMAN; INSULIN (blood); LACTATES (blood); LIVER (metabolism); MALE; OXYGEN CONSUMPTION; TIME FACTORS.

Magdalou J

[EFFECT OF GAMMA RAYS FROM ⁶⁰CO ON THE IN VITRO INCORPORATION OF PALMITIC ACID IN LIPIDS OF RAT LIVER MICROSOMES] Magdalou J, Dousset N, Douste-Blazy L *Int J Radiat Biol* 29: 27-35, Jan 76 (Fre) *DL/77FEB565

ANIMAL EXPERIMENTS (analysis); COBALT RADIOISOTOPES; DOSE-RESPONSE RELATIONSHIP, RADIATION; ENGLISH ABSTRACT; GAMMA RAYS, IN VITRO; LIPIDS (metabolism); MALE; MICROSOMES, LIVER (metabolism, radiation effects); PALMITIC ACIDS (metabolism); RADIATION EFFECTS; RATS.

Mager M

DRUG MODIFICATION OF HYPOTHERMIA INDUCED BY CNS GLUCOPENIA IN THE MOUSE. Mager M, Robinson S, Freinkel N *Biochem J* 157: 559-64, 1 Sep 76 (Eng) DL/77FEB499

ANIMAL; BLOOD SUGAR; BODY TEMPERATURE REGULATION; BODY TEMPERATURE (drug effects); BRAIN (metabolism); DESIPRAMINE (pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG; GLUCOSE (analog & derivatives, metabolism); INJECTIONS, INTRAVENTRICULAR; INSULIN (pharmacodynamics); MALE; MICE; NOREPINEPHRINE (pharmacodynamics); OXYGEN CONSUMPTION; PHENTOLAMINE (pharmacodynamics); PROPRANOLOL (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Mahboob S

EFFECT OF PANTOTHENIC ACID DEFICIENCY ON MICROSOMAL LIPIDS OF RAT LIVER. Mahboob S *Nutr Metab* 19: 91-5, 1975 (Eng) *DL/77FEB617

ANIMAL EXPERIMENTS (analysis); LIPIDS (metabolism); LYSOLECITHIN (metabolism); MALE; MICROSOMES, LIVER (metabolism); PANTOTHENIC ACID (deficiency); PHOSPHATIDYL CHOLINE (metabolism); PHOSPHATIDYL ETHANOLAMINE (metabolism); PHOSPHATIDYL GLYCEROLS (metabolism); PHOSPHATIDYL INOSITOL (metabolism); PHOSPHATIDYL SERINE (metabolism); PHOSPHOLIPIDS (metabolism); RATS; SPHINGOMYELINS (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; VITAMIN B DEFICIENCY (metabolism).

Diabetes Literature—Author Index

Maki TN

Maki TN

ENERGY METABOLISM AND PROTEOLYSIS IN TRAUMATIZED AND SEPTIC MAN. Clowes GH Jr, O'Donnell TF, Blackburn GL, Maki TN *Surg Clin North Am* 56: 1169-84, Oct 76 (Eng) [53] DL/77FEB406

Mako ME

CLINICAL CORRELATIONS OF SERUM PROINSULIN-LIKE MATERIAL IN ISLET CELL TUMOURS. Alsever RN, Stjernholm MR, Sussman KE, Mako ME, Rubenstein AH *Diabetologia* 12: 527-30, Oct 76 (Eng) DL/77FEB123

Malaisse WJ

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabet Metab* 1: 7-11, Mar 75 (Eng) DL/77FEB90

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL.)] Leclercq-Meyer V, Malaisse WJ *Diabet Metab* 1: 119-22, Jan 75 (Fre) DL/77FEB93

THE ROLE OF CALCIUM IN GLUCAGON RELEASE, INTERACTIONS BETWEEN GLUCOSE AND CALCIUM. Leclercq-Meyer V, Marchand J, Malaisse WJ *Diabetologia* 12: 531-8, Oct 76 (Eng) DL/77FEB124

INSULIN RELEASE AND THE MOVEMENTS OF CALCIUM IN PANCREATIC ISLETS. PP. 211-26. Malaisse WJ, Herchuelz A, Levy J, Somers G, Devis G *In: In: Carafoli E, et al., ed. Calcium transport in contraction and secretion. Amsterdam, North-Holland, 1975. QV 276 161c 1975.* (Eng) DL/77FEB179

ANIMAL; BIOLOGICAL TRANSPORT; BIOLOGICAL TRANSPORT, ACTIVE; CALCIUM (metabolism); GLUCOSE (pharmacodynamics); GLYCERALDEHYDE (pharmacodynamics); INSULIN (secretion); IPROVERATRIL (pharmacodynamics); ISLANDS OF LANGERHANS (drug effects, metabolism, ultrastructure); KINETICS; MONOGRAPH (mortality); THEOPHYLLINE (pharmacodynamics).

CALCIUM-ANTAGONISTS AND ISLET FUNCTION. VI. EFFECTS OF BARIUM. Somers G, Devis G, van Obberghen E, Malaisse WJ *Pfluegers Arch* 365: 21-8, 3 Sep 76 (Eng) DL/77FEB339

Malaisse-Lagae F

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabet Metab* 1: 7-11, Mar 75 (Eng) DL/77FEB90

Maldonato A

PROINSULIN SYNTHESIS IN ISLETS OF LANGERHANS FROM SPINY MICE (ACOMYS CAHIRINUS). COMPARISON WITH RATS AND MICE. Trueheart PA, Maldonato A, Kaelin D, Renold AE, Sharp GW *Diabetologia* 12: 463-70, Oct 76 (Eng) DL/77FEB115

EFFECTS OF STREPTOZOTOCIN IN VITRO ON PROINSULIN BIOSYNTHESIS, INSULIN RELEASE AND ATP CONTENT OF ISOLATED RAT ISLETS OF LANGERHANS. Maldonato A, Trueheart PA, Renold AE, Sharp GW *Diabetologia* 12: 471-81, Oct 76 (Eng) DL/77FEB116

ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL; IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, metabolism); MALE; NICOTINAMIDE

(pharmacodynamics); PROINSULIN (biosynthesis); PROTEINS (biosynthesis); RATS; STREPTOZOTOCIN (pharmacodynamics).

Malinow MR

A MODEL FOR THERAPEUTIC INTERVENTIONS ON ESTABLISHED CORONARY ATHEROSCLEROSIS IN A NONHUMAN PRIMATE. Malinow MR, McLaughlin O, Papworth L, Naito HK, Lewis L, McNulty WP *Adv Exp Med Biol* 67: 3-31, 1976 (Eng) *DL/77FEB694

ANIMAL EXPERIMENTS (analysis); AORTA (pathology); ARTERIOSCLEROSIS (therapy); CHOLESTEROL (blood); CORONARY DISEASE (pathology); CORONARY VESSELS (pathology); CYNOMOLGUS MONKEYS (anatomy & histology, blood); DIET, ATHEROGENIC; DISEASE MODELS, ANIMAL; FEMALE; MACACA (anatomy & histology); MONKEYS; THYROXINE (therapeutic use); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .

Mall JC

COMPARISON OF NON-SCREEN TECHNIQUES (MEDICAL VS. INDUSTRIAL FILM) FOR FINE-DETAIL SKELETAL RADIOGRAPHY. Genant HK, Doi K, Mall JC *Invest Radiol* 11: 486-500, SEP-OCT 76 (Eng) DL/77FEB151

Malone JJ

RENAL WASTAGE OF INSULIN IN CHILDREN WITH DIABETES MELLITUS. Malone JJ, Root AW *Diabetes* 25: 989-93, Oct 76 (Eng) DL/77FEB109

ADOLESCENCE; BLOOD PROTEINS (metabolism); CHILD; DIABETES MELLITUS, JUVENILE (drug therapy, physiopathology, urine); HUMAN; INSULIN ANTIBODIES; INSULIN (urine); INSULIN (therapeutic use); KIDNEY TUBULES (physiopathology); PROTEIN BINDING.

Mandrik KA

[HORMONAL AND VITAMIN REGULATION OF GLUCOSE-6-PHOSPHATASES ACTIVITY IN THE LIVER] Vinogradov VV, Mandrik KA, Ostrovskii IuM *Ukr Biokhim Zh* 48: 421-5, Jul-Aug 76 (Rus) DL/77FEB417

Manenti F

ALTERATION OF DRUG METABOLISM IN GILBERTS SYNDROME. Carulli N, Ponz de Leon M, Mauro E, Manenti F, Ferreri A *Gut* 17: 581-7, Aug 76 (Eng) DL/77FEB132

Mangel M

THE MOVEMENT OF ION PAIRS ACROSS BILAYER LIPID MEMBRANES. Mangel M, Jendrasiak GL *Chem Phys Lipids* 16: 167-80, Mar 76 (Eng) *DL/77FEB535

ANIONS; CATIONS, DIVALENT; CATIONS, MONOVALENT; CHOLESTEROL; COMPARATIVE STUDY; MEMBRANES, ARTIFICIAL; METHODS; MODELS, BIOLOGICAL; MOLECULAR CONFORMATION; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .

Mannheimer C

TISSUE CONCENTRATIONS OF ANTIBIOTICS. Mannheimer C, Brorson JE *J Antimicrob Chemother* 2: 313-4, Sep 76 (Eng) DL/77FEB156

AGED; DIABETES MELLITUS (complications); DICLOXACILLIN (blood, therapeutic use); FOOT DISEASES (drug therapy); HUMAN; TIME FACTORS; ULCER (complications, drug therapy).

Marasco M

INHIBITION OF THE GLUCOSE INDUCED INSULIN RELEASE BY SOMATOSTATIN IN THE ISOLATED PERFUSED RAT PANCREAS. ACTION OF CYCLIC AMP, GLUCAGON AND

GLIBENCLAMIDE. Osorio J, Campillo JE, de los Arcos JG, Pages I, Rodriguez E, Marasco M, Melani F *Rev Esp Fisiol* 32: 211-6, Sep 76 (Eng) DL/77FEB372

Marchand J

THE ROLE OF CALCIUM IN GLUCAGON RELEASE, INTERACTIONS BETWEEN GLUCOSE AND CALCIUM. Leclercq-Meyer V, Marchand J, Malaisse WJ *Diabetologia* 12: 531-8, Oct 76 (Eng) DL/77FEB124

Marck K

[FATTY LIVER IN A HOSPITAL POPULATION, 1970-1974] Haagsma B, Marck K, van der Woude FJ *Ned Tijdschr Geneesk* 120: 1625-30, 25 Sep 76 (Dut) DL/77FEB328

Margolis S

BLOOD GLUCOSE MONITORING IN SYMPTOMATIC HYPOGLYCEMIA. Cole RA, Benedict GW, Margolis S, Kowarski A *Diabetes* 25: 984-8, Oct 76 (Eng) DL/77FEB108

Markese J

IMMUNOREACTIVE GLUCAGONS IN PANCREATIC ISLETS. Tager HS, Markese J *Metabolism* 25: 1343-6, Nov 76 (Eng) DL/77FEB270

Markov A

MYOCARDIAL ION AND LIPID CHANGES DURING ISCHEMIA AND CATECHOLAMINE INDUCED NECROSIS: RELATION TO REGIONAL BLOOD FLOW. Regan TJ, Markov A, Khan MI, Jesrani MU, Oldewurtel HA, Ettinger PO *Recent Adv Stud Cardiac Struct Metab* 1: 656-64, 1972 (Eng) *DL/77FEB649

Marks PA

MITOCHONDRIAL FUNCTIONAL CHANGES DURING HEPATIC HYPERPLASIA AND AZO DYE CARCINOGENESIS. Higgins ES, Rogers KS, Marks PA *Chem Biol Interact* 13: 295-305, Jun 76 (Eng) *DL/77FEB532

Marks SR

IONOPHORE A23187-INDUCED INSULIN SECRETION IN THE ISOLATED, PERFUSED DOG PANCREAS. Conway HH, Griffey MA, Marks SR, Whitney JE *Horm Metab Res* 8: 351-3, Sep 76 (Eng) DL/77FEB140

Marquardt I

[PROTEIN HYDROLYSIS BY IMMOBILIZED ENZYMES] Lasch J, Koelsch R, Roth P, Gabert A, Marquardt I, Hanson H *Acta Biol Med Ger* 35: 735-43, 1976 (Ger) DL/77FEB452

Martin AF

CONTROL OF PROTEIN BALANCE IN HYPERTROPHIED CARDIAC MUSCLE. Zak R, Martin AF, Reddy MK, Rabinowitz M *Circ Res* 38: 1145-50, May 76 (Eng) *DL/77FEB537

Martin DB

GLUCAGON SECRETION FROM THE PERFUSED RAT PANCREAS FOLLOWING ACUTE AND CHRONIC STREPTOZOTOCIN. Weir GC, Atkins RF, Martin DB *Metabolism* 25: 1519-21, Nov 76 (Eng) DL/77FEB314

Martin JV

DIABETIC KETOALKALOSIS [LETTER]. Shirley R, Martin JV *Br Med J* 2: 943, 16 Oct 76 (Eng) DL/77FEB28

Martin LG

EFFECT OF AGING ON RIGHT VENTRICULAR ANOXIC RESISTANCE. Martin LG, McGrath JJ, Connors JM *Recent Adv Stud Cardiac Struct Metab* 7: 267-74, 1975 (Eng) *DL/77FEB668

AGING; ANIMAL EXPERIMENTS (analysis); ANOXIA (metabolism, physiopathology); GLYCOGEN (metabolism); HEART

Diabetes Literature—Author Index

McCorkle K

VENTRICLE (physiopathology); HEART (growth & development); MALE; MYOCARDIUM (metabolism); RATS; THYROXINE (blood); THYROXINE-BINDING PROTEIN (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Martini A

[PREVENTION OF ARTERIOSCLEROSIS DURING CHILDHOOD: PRELIMINARY RESEARCH] Nigro N, Benso L, Martini A, Baleri M, Brunet MR, Iudicello P *Minerva Pediatr* 27: 288-312, 18 Feb 75 (Ita) *DL/77FEB611

Masi AT

MYOCARDIAL INFARCTION IN YOUNGER WOMEN. ASSOCIATED CLINICAL FEATURES AND RELATIONSHIP TO USE OF ORAL CONTRACEPTIVE DRUGS. Arthes FG, Masi AT *Chest* 70: 574-83, Nov 76 (Eng) DL/77FEB60

Mason AD Jr

IMPAIRED GLUCOSE FLOW IN BURNED PATIENTS WITH GRAM-NEGATIVE SEPSIS. Wilmore DW, Mason AD Jr, Pruitt BA Jr *Surg Gynecol Obstet* 143: 720-4, Nov 76 (Eng) DL/77FEB408

Masara F

DOPAMINE AND INHIBITION OF PROLACTIN AND GROWTH-HORMONE SECRETION. Masara F, Camanni F, Belforte L, Molinatti GM *Lancet* 1: 913, 24 Apr 76 (Eng) *DL/77FEB606
DOPAMINE (pharmacodynamics); HUMAN; SOMATOTROPIN (blood, secretion).

Masuda H

PEPTIC ULCER IN DIABETES MELLITUS. Masuda H, Inoue S, Arakawa H, Koizumi K, Kubo N *Gastroenterol Jpn* 11: 1-4, 1976 (Eng) DL/77FEB128
ADOLESCENCE; ADULT; AGED; CHILD; DIABETES MELLITUS (complications); FEMALE; HUMAN; MALE; MIDDLE AGE; PEPTIC ULCER (etiology); TIME FACTORS.

Mathes P

METABOLIC CHANGES IN INFARCTED AND NON-INFARCTED MYOCARDIUM DURING THE POSTINFARCTION PERIOD. Gudbjarnason S, Ravens KG, Mathes P *Recent Adv Stud Cardiac Struct Metab* 1: 439-46, 1972 (Eng) *DL/77FEB644

METABOLISM OF NOREPINEPHRINE IN NONINFARCTED HEART MUSCLE AFTER EXPERIMENTAL MYOCARDIAL INFARCTION. Mathes P, Sack DW, Gudbjarnason S *Recent Adv Stud Cardiac Struct Metab* 7: 283-7, 1975 (Eng) *DL/77FEB670

ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT; DISEASE MODELS, ANIMAL; MYOCARDIAL INFARCT (metabolism); MYOCARDIUM (metabolism); NOREPINEPHRINE (metabolism); SUBCELLULAR FRACTIONS (metabolism).

Matsaniotis N

ADENYLATE CYCLASE ACTIVITY IN HUMAN TISSUES. Constantopoulos A, Xypolita A, Matsaniotis N *Biol Neonate* 29: 294-8, 1976 (Eng) DL/77FEB14

Matschinsky FM

CONTROL OF GLUCAGON SECRETION BY NUTRIENTS IN VITRO. Matschinsky FM, Pagliara AS *Metabolism* 25: 1435-6, Nov 76 (Eng) DL/77FEB291
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (biosynthesis); ANIMAL; GLUCAGON (secretion); GLUCOSE (pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, metabolism, secretion); RATS.

REGULATION OF GLUCAGON SECRETION OF THE DIABETIC PANCREAS IN VITRO [PROCEEDINGS]. Matschinsky FM, Pagliara AS *Metabolism* 25: 1517, Nov 76 (Eng) DL/77FEB313

ALLOXAN DIABETES (physiopathology); ANIMAL; DIABETES MELLITUS (chemically induced, physiopathology); GLUCAGON (secretion); GLUCOSE (pharmacodynamics); INSULIN (pharmacodynamics); ISLANDS OF LANGERHANS (drug effects, secretion); RATS; STREPTOZOTOCIN.

Matsuda A

HUMAN C-PEPTIDE IMMUNOREACTIVITY (CPR) IN BLOOD AND URINE - EVALUATION OF A RADIOIMMUNOASSAY METHOD AND ITS CLINICAL APPLICATIONS. Kuzuya T, Saito T, Yoshida S, Matsuda A *Diabetologia* 12: 511-8, Oct 76 (Eng) DL/77FEB120

DISAPPEARANCE RATE OF ENDOGENOUS HUMAN C-PEPTIDE FROM BLOOD. Kuzuya T, Matsuda A *Diabetologia* 12: 519-21, Oct 76 (Eng) DL/77FEB121

Matsuo T

A POLYPEPTIDE (AP-A) FROM SEA ANEMONE (ANTHOPELURA XANTHOGRAMMICA) WITH POTENT POSITIVE INOTROPIC ACTION. Shibata S, Norton TR, Izumi T, Matsuo T, Katsuki S *J Pharmacol Exp Ther* 199: 298-309, Nov 76 (Eng) DL/77FEB210

Matsuura N

HLA AND JUVENILE DIABETES MELLITUS IN THE JAPANESE [LETTER]. Wakisaka A, Aizawa M, Matsuura N, Nakagawa S, Nakayama E *Lancet* 2: 970, 30 Oct 76 (Eng) DL/77FEB249

Matsuyama T

ELEVATED GUT GLUCAGON-LIKE IMMUNOREACTIVE MATERIAL IN HUMAN AND EXPERIMENTAL DIABETES AND ITS SUPPRESSION BY SOMATOSTATIN. Wider MD, Matsuyama T, Dunbar JC, Foa PP *Metabolism* 25: 1487-9, Nov 76 (Eng) DL/77FEB306

Matte R

[BLOOD SUGAR AND BLOOD INSULIN AFTER A RAW OR COOKED MEAL IN CONTROL AND DIABETIC SUBJECTS] Havrankova J, Pesant P, Elie R, Matte R *Union Med Can* 105: 1147-51, Aug 76 (Fre) DL/77FEB421

Matthews EK

CALCIUM AND STIMULUS-SECRETION COUPLING IN PANCREATIC ISLET CELLS. PP. 203-10. Matthews EK, InO Carafoli E, et al., ed. *Calcium transport in contraction and secretion. Amsterdam, North-Holland, 1975. QV 276 161c 1975. (Eng) DL/77FEB178*

ANIMAL; CALCIUM (pharmacodynamics); CELL MEMBRANE (drug effects, physiology); GLUCOSE (pharmacodynamics); ISLANDS OF LANGERHANS (drug effects, physiology); MANGANESE (pharmacodynamics); MATHEMATICS; MEMBRANE POTENTIALS (drug effects); MICE; MICROELECTRODES; MODELS, BIOLOGICAL; MONOGRAPH (mortality); TETRODOTOXIN (pharmacodynamics).

Matus Seueira A

[INTRAVENOUS AND ORAL GLUCOSE: PRODUCTION OF INSULIN AND GROWTH HORMONE IN THE NEWBORN INFANT] Dorantes Alvarez L, De Los Monteros Mena AE, Matus Seueira A, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 979-92, Sep-Oct 76 (Spa) DL/77FEB3

Matys Z

INSULIN RESISTANT DIABETES MELLITUS WITHOUT THE PRESENCE OF INSULIN ANTIBODIES. A CASE REPORT. Pav J, Sramkova

J, Matys Z *Endokrinologie* 67: 373-6, 1976 (Eng) DL/77FEB71

Matzkies F

[FASTING VALUES OF CARBOHYDRATE- AND LIPID METABOLISM IN HEALTHY SUBJECTS AND IN PATIENTS WITH DIABETES MELLITUS] Berg G, Matzkies F, Sailer D *Fortschr Med* 94: 1541-3, 7 Oct 76 (Ger) DL/77FEB135

Mauro E

ALTERATION OF DRUG METABOLISM IN GILBERTS SYNDROME. Carulli N, Ponz de Leon M, Mauro E, Manenti F, Ferrari A *Gut* 17: 581-7, Aug 76 (Eng) DL/77FEB132

Mayer KH

EPIDEMIOLOGIC FINDINGS ON THE RELATIONSHIP OF TIME OF DAY AND TIME SINCE LAST MEAL TO GLUCOSE TOLERANCE. Mayer KH, Stamler J, Dyer A, Freinkel N, Stamler R, Berkson DM, Farber B *Diabetes* 25: 936-43, Oct 76 (Eng) DL/77FEB100

ADULT; BLOOD SUGAR (metabolism); CAUCASIAN RACE; CIRCADIAN RHYTHM; FASTING; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; MALE; MIDDLE AGE; MULTIPHASIC SCREENING; NEGROID RACE; TIME FACTORS; TIME; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Mayr WR

[HL-A SYSTEM AND DIABETES MELLITUS] Schernthaner G, Ludwig H, Eibl M, Erd W, Pacher M, Mayr WR *Schweiz Med Wochenschr* 106: 514-7, 10 Apr 76 (Ger) DL/77FEB394

Mazzaferri EL

GASTRIC INHIBITORY POLYPEPTIDE (GIP) IN MATURITY-ONSET DIABETES MELLITUS. Crockett SE, Mazzaferri EL, Cataland S *Diabetes* 25: 931-5, Oct 76 (Eng) DL/77FEB99

TUMORS OF THE ISLETS OF LANGERHANS. Zollinger RM, Mazzaferri EL *Adv Surg* 10: 137-76, 1976 (Eng) [73] DL/77FEB464

McCann SM

CONTROL OF GONADOTROPIN AND PROLACTIN SECRETION BY HYPOTHALAMIC RELEASING AND INHIBITING HORMONES. PP. 80-9. McCann SM, Cooper K, Harms PG, Libertun C, Negro-Vilar A, Ojeda SR, Orias R, Moss RL, Fawcett CP, Krulich L, Gilon C, Amoss M, Rivier C, Ling N, Burgess R, Guillemin R *InO Lederis K, Cooper KE, ed. Recent studies of hypothalamic function. Basel, Karger, 1974. WL 312 165r 1973. (Eng) *DL/77FEB589*

ANIMAL EXPERIMENTS (analysis); DOPAMINE (physiology); ELECTRIC STIMULATION; GONADOTROPINS, PITUITARY (secretion); HYPOTHALAMUS (physiology); MONOGRAPH (mortality); NOREPINEPHRINE (physiology); PARASYMPATHOMIMETICS (physiology); PROLACTIN RELEASE INHIBITING HORMONE (physiology); PROLACTIN RELEASING HORMONE (physiology); PROLACTIN (secretion); PROSTAGLANDINS (physiology); RATS; SEX BEHAVIOR, ANIMAL (physiology).

McCartney P

SMOKING AND OTHER RISK FACTORS FOR CORONARY HEART-DISEASE IN BRITISH CIVIL SERVANTS. Reid DD, Hamilton PJ, McCartney P, Rose G, Jarrett RJ, Keen H *Lancet* 2: 979-84, 6 Nov 76 (Eng) DL/77FEB253

McCorkle K

CHARACTERISTICS OF TISSUE IRGS IN THE DOG. Srikanth CB, McCorkle K, Unger RH *Metabolism* 25: 1403-4, Nov 76 (Eng) DL/77FEB283

McDonald TJ

McDonald TJ

INHIBITION OF ACTIONS OF GLUCAGON IN ADIPOCYTES BY GASTRIC INHIBITORY POLYPEPTIDE. Dupre J, Greenidge N, McDonald TJ, Ross SA, Rubinstein D *Metabolism* 25: 1197-9, Nov 76 (Eng) DL/77FEB259

McEvoy RC

FOETAL RAT PANCREAS IN ORGAN CULTURE. EFFECT OF CORTICOSTERONE CONCENTRATIONS ON THE ACINAR AND ISLET CELL COMPONENTS. McEvoy RC, Hegre OD, Lazarow A *Differentiation* 6: 17-26, 16 Mar 76 (Eng) DL/77FEB125

ADRENAL GLANDS (physiology); AMYLASE (metabolism); ANIMAL; CELL DIFFERENTIATION (drug effects); CORTICOSTERONE (metabolism, pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG; INSULIN (metabolism); ORGAN CULTURE; PANCREAS (drug effects, embryology, metabolism); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.)

McGarry JD

GLUCAGON AND KETOGENESIS. McGarry JD, Robles-Valdes C, Foster DW *Metabolism* 25: 1387-9, Nov 76 (Eng) DL/77FEB280

ACIDOSIS (metabolism); AGE FACTORS; ANIMAL; ANIMALS, NEWBORN; CARNITINE (metabolism); FEMALE; GLUCAGON (pharmacodynamics); KETONE BODIES (blood, metabolism); KETOSIS (metabolism); LIVER GLYCOGEN (metabolism); LIVER (embryology, growth & development, metabolism); MILK (metabolism); PREGNANCY; RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.)

McGrath JJ

EFFECT OF AGING ON RIGHT VENTRICULAR ANOXIC RESISTANCE. Martin LG, McGrath JJ, Connors JM *Recent Adv Stud Cardiac Struct Metab* 7: 267-74, 1975 (Eng) *DL/77FEB668

McGuire EA

EFFECTS OF ARTERIAL VERSUS VENOUS SAMPLING ON ANALYSIS OF GLUCOSE KINETICS IN MAN. McGuire EA, Helderman JH, Tobin JD, Andres R, Berman M *Biochem J* 157: 565-73, 1 Sep 76 (Eng) DL/77FEB500

ADULT; ARTERIES; BLOOD SUGAR; GLUCOSE TOLERANCE TEST; HUMAN; HYPERGLYCEMIA (blood); KINETICS; MALE; MATHEMATICS; MODELS, BIOLOGICAL; VEINS.

McIntosh C

SOMATOSTATIN AND INSULIN RELEASE FROM ISOLATED RAT PANCREATIC ISLETS STIMULATED BY GLUCOSE. Schauder P, McIntosh C, Arends J, Arnold R, Frerichs H, Creutzfeldt W *FEBS Lett* 68: 225-7, 1 Oct 76 (Eng) DL/77FEB79

McIntyre PA

EFFECTS OF MITOGENS ON GLUCOSE OXIDATION BY LYMPHOCYTES FROM NORMAL INDIVIDUALS AND PATIENTS WITH CHRONIC LYMPHOCYTIC LEUKEMIA. Tsan MF, Chen WY, Newman B, Wagner HN Jr, McIntyre PA *Johns Hopkins Med J* 138: 113-8, Apr 76 (Eng) *DL/77FEB603

McLaughlin O

A MODEL FOR THERAPEUTIC INTERVENTIONS ON ESTABLISHED CORONARY ATHEROSCLEROSIS IN A NONHUMAN PRIMATE. Malinow MR, McLaughlin O, Papworth L, Naito HK, Lewis L, McNulty WP *Adv Exp Med Biol* 67: 3-31, 1976 (Eng) *DL/77FEB694

McMillan DE

ALPHA2-MACROGLOBULIN IN DIABETES [LETTER]. McMillan DE *Lancet* 2: 1020-1, 6 Nov 76 (Eng) DL/77FEB251

ADOLESCENCE; ADULT; AGE FACTORS; AGED; ALPHA MACROGLOBULIN; CHILD; DIABETES MELLITUS (blood); DIABETIC ANGIOPATHIES (blood); FEMALE; HUMAN; MACROGLOBULINEMIA (complications); MALE; MIDDLE AGE; SEX FACTORS.

McMillin Wood J

CARNITINE PALMITYLTRANSFERASE ACTIVITY DURING MYOCARDIAL ISCHEMIA AND AT LOW IONIC STRENGTHS. McMillin Wood J *Recent Adv Stud Cardiac Struct Metab* 7: 335-9, 1975 (Eng) *DL/77FEB673

ACYLTRANSFERASES (metabolism); ANIMAL EXPERIMENTS (analysis); BINDING SITES; CARNITINE PALMITOYLTRANSFERASE (metabolism); COENZYME A (metabolism); CORONARY DISEASE (enzymology); DOGS; HEART VENTRICLE (physiology); KINETICS; MITOCHONDRIA, MUSCLE (metabolism); MYOCARDIUM (enzymology); OSMOLAR CONCENTRATION; PALMITIC ACIDS (metabolism).

McNulty WP

A MODEL FOR THERAPEUTIC INTERVENTIONS ON ESTABLISHED CORONARY ATHEROSCLEROSIS IN A NONHUMAN PRIMATE. Malinow MR, McLaughlin O, Papworth L, Naito HK, Lewis L, McNulty WP *Adv Exp Med Biol* 67: 3-31, 1976 (Eng) *DL/77FEB694

McPherson CK

HUMAN FAT CELL SIZING--A QUICK, SIMPLE METHOD. Ashwell M, Priest P, Bondoux M, Sowter C, McPherson CK *J Lipid Res* 17: 190-2, Mar 76 (Eng) *DL/77FEB594

Mearns MB

MECONIUM ILEUS EQUIVALENT IN ADULTS WITH CYSTIC FIBROSIS OF PANCREAS: A REPORT OF SIX CASES. Hodson ME, Mearns MB, Batten JC *Br Med J* 2: 790-1, 2 Oct 76 (Eng) DL/77FEB27

Medvedev IK

[ANALYSIS OF BREAST CELL DIFFERENTIATION IN TISSUE CULTURE UNDER THE INFLUENCE OF HORMONES] Kalantar IL, Khrustaleva GI, Nechipurenko LV, Medvedev IK *Tsitologiya* 18: 1014-9, Aug 76 (Rus) DL/77FEB416

Meeker R

SUPPRESSION OF FOOD INTAKE IN DIABETIC RATS BY VOLUNTARY CONSUMPTION AND INTRAHYPOTHALAMIC INJECTION OF GLUCOSE. Panksepp J, Meeker R *Physiol Behav* 16: 763-70, Jun 76 (Eng) DL/77FEB366

Megyesi K

RADIORECEPTOR ASSAY OF PLASMA NSILAS IN MAN: BASAL AND STIMULATED LEVELS IN NORMAL AND PATHOLOGIC STATES. PP. 127-40. Megyesi K, Kahn CR, Roth J, Gorden P, Neville DM Jr *In: Pecile IL, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381* 1975. (Eng) DL/77FEB187

ANIMAL; FEMALE; GLUCOSE (diagnostic use); HUMAN; INSULIN (diagnostic use, metabolism); KINETICS; LIVER (metabolism); MONOGRAPH (mortality); NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY (analysis); PREGNANCY; RADIOLIGAND ASSAY (methods); RATS; RECEPTORS, INSULIN (metabolism).

Meinel H

[COMPARATIVE STUDIES ON THE ORAL GLUCOSE TOLERANCE USING 50 AND 100G OF GLUCOSE WITH SPECIAL REFERENCE TO VARIOUS LIPID-METABOLISM PARAMETERS] Meinel H, Wolff E *Z Aerzt Fortbild (Jena)* 70: 943-6, 1 Sep 76 (Ger) DL/77FEB437

ADOLESCENCE; ADULT; BLOOD SUGAR (analysis); COMPARATIVE STUDY; DIABETES MELLITUS (blood); GLUCOSE TOLERANCE TEST (methods); GLUCOSE (administration & dosage); HUMAN; LIPIDS (blood); PREDIABETIC STATE (blood); TIME FACTORS.

Meinertz T

PHARMACOKINETIC ANALYSIS OF THE INTERACTION BETWEEN DICOUMAROL AND TOLBUTAMIDE IN MAN. Jahnchen E, Meinertz T, Gilfrich HJ, Groth U *Eur J Clin Pharmacol* 10: 349-56, 30 Sep 76 (Eng) DL/77FEB74

Melamed E

REACTIVE HYPERGLYCAEMIA IN PATIENTS WITH ACUTE STROKE. Melamed E *J Neuro Sci* 29: 267-75, Oct 76 (Eng) DL/77FEB200

ACUTE DISEASE; ADULT; AGED; BLOOD SUGAR (analysis); BRAIN STEM; CEREBRAL EMBOLISM AND THROMBOSIS (complications); CEREBROVASCULAR DISORDERS (complications, mortality); DIABETES MELLITUS (complications); FEMALE; HUMAN; HYPERGLYCEMIA (etiology); MALE; MIDDLE AGE.

Melani F

INHIBITION OF THE GLUCOSE INDUCED INSULIN RELEASE BY SOMATOSTATIN IN THE ISOLATED PERFUSED RAT PANCREAS. ACTION OF CYCLIC AMP, GLUCAGON AND GLIBENCLAMIDE. Osorio J, Campillo JE, de los Arcos JG, Pages I, Rodriguez E, Marasco M, Melani F *Rev Esp Fisiol* 32: 211-6, Sep 76 (Eng) DL/77FEB372

Mellerup ET

LITHIUM EFFECTS ON CARBOHYDRATE AND ELECTROLYTE METABOLISM. PP. 319-22. Mellerup ET, Plenge P, Rafalsen OJ *In: Ban TA, et al., ed. Psychopharmacology, sexual disorders and drug abuse. Amsterdam, North-Holland, 1973. QV 77 P973* 1972. (Eng) *DL/77FEB584

CALCIUM (metabolism); CARBOHYDRATES (metabolism); ELECTROLYTES (metabolism); GLUCOSE (metabolism); GLYCOGEN (metabolism); LITHIUM (pharmacodynamics); MAGNESIUM (metabolism); MONOGRAPH (mortality).

Mellgren G

HUMAN ADIPOSE TISSUE IN CULTURE. VI. EFFECT OF AGE ON CELL SIZE AND LIPOLYSIS. Nyberg G, Mellgren G, Smith U *Acta Paediatr Scand* 65: 313-8, May 76 (Eng) *DL/77FEB687

Mello EH

[GLUCOSE TOLERANCE TESTS WITH ORAL GLUCOSE CHALLENGES OF 50 AND 100 GRAMS (AUTHORS TRANSL)] Federico RD, Jablonka S, Mello EH, Reis LC *Rev Bras Pesqui Med Biol* 9: 213-6, Sep 76 (Por) DL/77FEB371

Melrose E

DIABETIC KETOALKALOSIS [LETTER]. Melrose E, Morgan A, Harrower AD, Smith AW *Br Med J* 2: 237, 24 Jul 76 (Eng) DL/77FEB21

ACIDOSIS, DIABETIC (complications); AGED; ALKALOSIS (complications); HUMAN; KETOSIS, DIABETIC (complications); MALE; VOMITING (etiology).

Mendoza F

PROPRANOLOL EFFECT ON PLASMA GLUCOSE, FREE FATTY ACID, INSULIN, AND GROWTH HORMONE IN GRAVES DISEASE. Ortigosa JL, Mendoza F, Argote RM, Garcia G, Cervantes C, Parra A *Metabolism* 25: 1201-7, Nov 76 (Eng) DL/77FEB260

Diabetes Literature—Author Index

Miyamoto Y

Menge M

EFFECT ON MYOCARDIAL METABOLIC PATTERN OF LOCAL COMPLETE AND INCOMPLETE ISCHEMIA. Isselhard W, Geppert E, Menge M, Lauterjung KL, Vogel W, Witte J, Heugel E *Recent Adv Stud Cardiac Struct Metab* 7: 231-6, 1975 (Eng) *DL/77FEB664

Meriel P

[DIABETES MELLITUS IN PHEOCHROMOCYTOMA] Sudre Y, Becq-Giraudon B, Pouget-Abadie JF, Boutaud P, Barbier J, Meriel P, Gasquet C, Babin P *Sem Hop Paris* 52: 1893-902, 16 OCT 76 (Fre) DL/77FEB399

Merimee TJ

DIET-INDUCED ALTERATIONS OF HIGH SECRETION IN MAN. Merimee TJ, Pulkkinen AJ, Burton CE *J Clin Endocrinol Metab* 62: 931-7, May 76 (Eng) *DL/77FEB578
ADULT; AGED; ARGININE (pharmacodynamics); CLINICAL RESEARCH; COMPARATIVE STUDY; DIET; DIETARY CARBOHYDRATES; DIETARY FATS; DIETARY PROTEINS; FASTING; FEMALE; HUMAN; MALE; MIDDLE AGE; PITUITARY GLAND (physiology); PITUITARY GLAND, ANTERIOR (physiology); SEX FACTORS; SOMATOTROPIN (secretion); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.)

Mersmann HJ

LIPOLYTIC ACTIVITY OF SWINE ADIPOCYTES. Mersmann HJ, Brown LJ, Beuving RD, Arakelian MC *Am J Physiol* 230: 1439-43, May 76 (Eng) *DL/77FEB700
ADIPOSE TISSUE (cytology, metabolism); AGE FACTORS; ANIMAL EXPERIMENTS (analysis); CORTICOTROPIN (pharmacodynamics); DIBUTYRYL CYCLIC AMP (pharmacodynamics); EPINEPHRINE (pharmacodynamics); FATTY ACIDS (metabolism); GLUCOSE (pharmacodynamics); GLYCERIN (metabolism); LIPIDS (metabolism); PROSTAGLANDINS E (pharmacodynamics); SWINE (growth & development, metabolism); THEOPHYLLINE (pharmacodynamics).

Mestman JH

MATERNAL MORTALITY IN DIABETES MELLITUS: AN 18-YEAR SURVEY. Gabbe SG, Mestman JH, Hibbard LT *Obstet Gynecol* 48: 549-51, Nov 76 (Eng) DL/77FEB331

Meyer D

HYPOGLYCEMIA AND HYPOINSULINEMIA ASSOCIATED WITH HEPATOMA IN A DOG. Strombeck DR, Krum S, Meyer D, Kappesser RM *J Am Vet Med Assoc* 169: 811-2, 15 Oct 76 (Eng) DL/77FEB152

Meyer DJ

PANCREATIC ISLET CELL CARCINOMA IN A DOG TREATED WITH STREPTOZOTOCIN. Meyer DJ *Am J Vet Res* 37: 1221-3, Oct 76 (Eng) DL/77FEB487
ANIMAL; CASE REPORT; DOG DISEASES (chemically induced, drug therapy, surgery); DOGS; FEMALE; HYPOGLYCEMIA (veterinary); INSULIN (blood); ISLET CELL TUMOR (drug therapy, surgery, veterinary); KIDNEY DISEASES (chemically induced, veterinary); NEOPLASM METASTASIS; PANCREATIC NEOPLASMS (surgery, veterinary); STREPTOZOTOCIN (adverse effects, therapeutic use).

Meyrat CA

[HYPOGLYCAEMIA (AUTHORS TRANSL.)] Uebersax R, Jeanmonod D, Meyrat CA *Praxis* 65: 504-9, 27 Apr 76 (Fre) DL/77FEB354

Mialhe P

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN

THE DUCK. Foltzer C, Leclercq-Meyer V, Mialhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77FEB86

THE CONTRIBUTION OF THE PANCREAS AND THE INTESTINE TO THE REGULATION OF LIPOLYSIS IN BIRDS. 2. IMPAIRED LIPOLYTIC ACTIVITY OF PANCREATIC GLUCAGON IN THE ABSENCE OF EITHER THE PANCREAS OR THE INTESTINE IN THE CHICKEN. Krug E, Gross R, Mialhe P *Horm Metab Res* 8: 345-50, Sep 76 (Eng) DL/77FEB139

Michaelis D

CLINICAL AND METABOLIC STUDIES IN CHILDREN OF DIABETIC-MOTHERS. Amendt P, Michaelis D, Hildmann W *Endokrinologie* 67: 351-61, 1976 (Eng) DL/77FEB70

Mihatsch MJ

[LACTIC ACIDOSIS IN DIABETES MELLITUS (AUTHORS TRANSL.)] Buess HJ, Mihatsch MJ, Wunderlich P, Berger W *Praxis* 65: 406-13, 6 Apr 76 (Ger) DL/77FEB353

Mikhailov ML

[INFLUENCE OF ANGIOTENSIN II ON THE FATTY ACID LEVEL IN THE TRIACYLGLYCERIDES OF THE BLOOD PLASMA OF RABBITS] Mikhailov ML *Patol Fiziol Eksp Ter* 75-7, May-Jun 75 (Rus) *DL/77FEB620
ANGIOTENSIN II (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); BLOOD PRESSURE; ENGLISH ABSTRACT; FATTY ACIDS (blood); FATTY ACIDS, UNSATURATED (blood); GLYCERIDES (blood); RABBITS; TIME FACTORS.

Miklos G

[CLINICAL EXPERIENCE WITH THE NEW HUNGARIAN GLIBENCLAMIDE PRODUCT (GILEMAL)] Bela P, Miklos G *Orv Hetil* 117: 2792-4, 14 Nov 76 (Hun) DL/77FEB335

Milewicz A

[RESULTS OF TREATMENT OF DIABETES IN SIPIDUS WITH PFIZERS DIABINESE (AUTHORS TRANSL.)] Chęcinska Z, Galazka A, Gruszka S, Stepien M, Milewicz A, Szklarz E *Przegł Lek* 33: 697-9, 1976 (Pol) DL/77FEB370

Miller DL

EFFECTS OF DIABETES ON INTESTINAL MAGNESIUM ABSORPTION IN THE RAT. Miller DL, Schedl HP *Am J Physiol* 231: 1039-42, Oct 76 (Eng) DL/77FEB473
ANIMAL; BIOLOGICAL TRANSPORT; BODY WEIGHT; DIABETES MELLITUS (chemically induced, metabolism); DUODENUM (growth & development, metabolism); ILEUM (growth & development, metabolism); INTESTINAL ABSORPTION; INTESTINAL MUCOSA (growth & development, metabolism); MAGNESIUM (metabolism); MALE; RATS; STREPTOZOTOCIN; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ; VITAMIN D (metabolism).

Miller JK

EFFECT OF POTASSIUM AND HYPOMAGNESEMIA ON INSULIN IN THE BOVINE. Lentz DE, Madsen FC, Miller JK, Hansard SL *J Anim Sci* 43: 1082-7, Nov 76 (Eng) DL/77FEB154

Miller RL

A MICROSURGICAL TECHNIQUE FOR ORTHOTOPIC OVARIAN TRANSPLANTATION IN THE CHINESE HAMSTER. Schmidt FL, Miller RL, Peterson T, Soret MG *Surgery* 80: 595-600, Nov 76 (Eng) DL/77FEB409

Miller Y

A HIGHLY SENSITIVE ASSAY FOR MICROSOMAL DIACYGLYCEROL ACYLTRANSFERASE ACTIVITY FROM ISOLATED FAT CELLS. Bell RM, Miller Y *Anal Biochem* 71: 436-43, Apr 76 (Eng) *DL/77FEB702

Milthorpe BK

POLYMERIZATION PATTERN OF INSULIN AT PH 7.0. Jeffrey PD, Milthorpe BK, Nichol LW *Biochemistry* 15: 4660-5, 19 Oct 76 (Eng) DL/77FEB10

Minatogawa Y

ORGAN DISTRIBUTION OF RAT HISTIDINE-PYRUVATE AMINOTRANSFERASE ISOENZYMES. Noguchi T, Minatogawa Y, Okuno E, Kido R *Biochem J* 157: 635-41, 1 Sep 76 (Eng) DL/77FEB502

Minelli R

THE HORMONAL RESTORATION OF THE INTRINSIC CONTRACTILE FUNCTION OF THE ATROPHIC HEARTS OF HYPOPHYSECTOMIZED RATS. Korecky B, Taichman GC, Minelli R, Beznak M *Recent Adv Stud Cardiac Struct Metab* 1: 71-80, 1972 (Eng) *DL/77FEB651

Mion C

[TREATMENT OF DIABETIC KETO-ACIDOSIS THROUGH CONTINUOUS INSULIN INFUSION] Mironouze J, Mion C, Monnier L, Beraud JJ, Selam JL *Nouv Presse Med* 5: 2444-6, 6 Nov 76 (Fre) DL/77FEB342

Miranda Caballero R

[DIABETIC COMA] Miranda Caballero R *Bol Med Hosp Infant Mex* 33: 1203-8, Sep-Oct 76 (Spa) DL/77FEB2

AGE FACTORS; CHILD; DIABETIC COMA (therapy); HUMAN.

Mironouze J

[DIABETES MELLITUS UNDER 30 YEARS OF AGE. RESULTS OF 18 YEARS EXPERIENCE WITH ORAL TREATMENT (AUTHORS TRANSL.)] Mironouze J, Cartry E *Diabete Metab* 1: 113-8, Jun 75 (Fre) DL/77FEB92
ADMINISTRATION, ORAL; ADOLESCENCE; ADULT; BIGUANIDES (therapeutic use); CHILD; CHILD, PRESCHOOL; COMPARATIVE STUDY; DIABETES MELLITUS (complications, drug therapy); DIABETES MELLITUS, JUVENILE (drug therapy); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPOGLYCEMIC AGENTS (administration & dosage); INFANT; INFANT, NEWBORN; INSULIN (therapeutic use); MALE; OBESITY IN DIABETES; PREGNANCY IN DIABETES; PREGNANCY; SULFONYLUREA COMPOUNDS (therapeutic use); TIME FACTORS.

[TREATMENT OF DIABETIC KETO-ACIDOSIS THROUGH CONTINUOUS INSULIN INFUSION] Mironouze J, Mion C, Monnier L, Beraud JJ, Selam JL *Nouv Presse Med* 5: 2444-6, 6 Nov 76 (Fre) DL/77FEB342

ACIDOSIS, DIABETIC (drug therapy); ADULT; BLOOD SUGAR (analysis); ENGLISH ABSTRACT; FEMALE; HUMAN; INFUSIONS, PARENTERAL (methods); INSULIN (therapeutic use); KETOSIS, DIABETIC (drug therapy); MALE.

Mitton J

SALIVARY GLAND GLUCAGON IN MAN AND ANIMALS. Lawrence AM, Tan S, Hoivat S, Kirsteins L, Mitton J *Metabolism* 25: 1405-8, Nov 76 (Eng) DL/77FEB284

Miyamoto Y

IMPAIRED PLASMA INSULIN RESPONSE TO ARGININE IN HYPERTHYROIDISM. IMPORTANT ROLE OF THE RISE OF BLOOD GLU-

Diabetes Literature—Author Index

Mizumoto R

COSE IN THE SECOND PHASE OF INSULIN RELEASE INDUCED BY ARGININE. Imura H, Seino Y, Ikeda M, Taminato T, Miyamoto Y *Diabetes* 25: 961-8, Oct 76 (Eng) DL/77FEB104

Mizumoto R

CHANGES IN CARBOHYDRATE METABOLISM AND ENDOCRINE FUNCTION OF REMNANT PANCREAS AFTER MAJOR PANCREATIC RESECTION. Yasugi H, Mizumoto R, Sakurai H, Honjo I *Am J Surg* 132: 577-80, Nov 76 (Eng) DL/77FEB477

Mjos OD

THE EFFECT OF ANTILIPOLYTIC AGENTS ON CYCLIC AMP, FREE FATTY ACID AND TOTAL CATECHOLAMINE CONCENTRATIONS IN PLASMA. Strange RC, Rowe MJ, Mjos OD, Oliver MF *Acta Med Scand* 199: 421-4, 1976 (Eng) *DL/77FEB691

Mohr D

[BEHAVIOUR OF SERUM CONCENTRATIONS OF GLUCOSE, IMMUNOREACTIVE INSULIN AND POTASSIUM IONS IN NEWBORNS AFTER LONG TERM OR CRASH TREATMENTS WITH PARTUSISTEN OR PARTUSISTEN IN COMBINATION WITH ISOPTIN (AUTHORS TRANSL.)] Weidinger H, Mohr D, Haller K, Hiltmann WD, Vogel M *Z Geburtshilfe Perinatol* 180: 258-65, Aug 76 (Ger) DL/77FEB439

Molinatti GM

DOPAMINE AND INHIBITION OF PROLACTIN AND GROWTH-HORMONE SECRETION. Massara F, Camanni F, Belforte L, Molinatti GM *Lancet* 1: 913, 24 Apr 76 (Eng) *DL/77FEB606

Moller BB

[BLOOD GLUCOSE LEVELS IN PATIENTS ON HEMODIALYSIS DURING PROPRANOLOL (INDERAL) TREATMENT] Jensen HA, Laursen PA, Moller BB *Ugeskr Laeger* 138: 2956-7, 15 Nov 76 (Dan) DL/77FEB418

Molochkina EM

[REGULATION OF MICROSOMAL ENZYME ACTIVITY BY PHOSPHOLIPIDS IN VIVO] Burlakova EB, Dzhalibova M, Molochkina EM *Dokl Akad Nauk SSSR* 227: 991-4, 1976 (Rus) *DL/77FEB547

Monaco AP

PANCREATIC ISLET CELL TRANSPLANTATION AND DIABETES THERAPY. Monaco AP, Codish SD *Compr Ther* 2: 29-37, Nov 76 (Eng) DL/77FEB50

ARTIFICIAL ORGANS; DIABETES MELLITUS (complications, surgery); HISTOCOMPATIBILITY; HUMAN; IMMUNOSUPPRESSION; ISLANDS OF LANGERHANS (transplantation); TISSUE PRESERVATION; TRANSPLANTATION, HOMOLOGOUS.

Monahan M

CONTROL OF ANTERIOR PITUITARY HORMONE SECRETION. HYPOTHALAMIC PEPTIDES AND THEIR INTERACTIONS. PP. 180-95. Grant G, Vale W, Brazeau P, Rivier J, Monahan M, Gilon C, Amoss M, Rivier C, Ling N, Burgess R, Guillemin R *In: Lederis K, Cooper KE, ed. Recent studies of hypothalamic function.* Basel, Karger, 1974. WL 312 165r 1973. (Eng) [39] *DL/77FEB588

Monastersky F

DIABETIC FOOT CARE EDUCATION IN A PODIATRY CLINIC: A PILOT STUDY. Scarlet JJ, Conner JC, Monastersky C *J Am Podiatry Assoc* 66: 798-800, Oct 76 (Eng) DL/77FEB173

Monnier L

[TREATMENT OF DIABETIC KETO-ACIDOSIS THROUGH CONTINUOUS INSULIN INFUSION] Mirouze J, Mion C, Monnier L, Beraud JJ, Selam JL *Nouv Presse Med* 5: 2444-6, 6 Nov 76 (Fre) DL/77FEB342

Montagne JP

[THE SMALL LEFT COLON SYNDROME. 3 CASES] Neuenschwander S, Montagne JP, Boudou A, Bouron D, Mougnot JF, Gruner M, Faure C *Nouv Presse Med* 6: 2311-4, 23 Oct 76 (Fre) DL/77FEB346

Montreuil J

[STUDY OF THE FUCOSE-RICH OLIGOSACCHARIDES IN THE URINE OF HEALTHY AND MELITURIC SUBJECTS WITH A, B AND O BLOOD GROUPS] Strecker G, Trentesaux-Chauvet C, Poitau A, Montreuil J *Biochimie* 58: 805-14, 1976 (Fre) DL/77FEB11

Moody AJ

PURIFICATION AND CHARACTERIZATION OF A PROTEIN FROM PORCINE GUT WITH GLUCAGON-LIKE IMMUNOREACTIVITY. Sundby F, Jacobsen H, Moody AJ *Horm Metab Res* 8: 366-71, Sep 76 (Eng) DL/77FEB143

Moore B

GLUCOSE TOLERANCE AND HORMONE REPLACEMENT THERAPY. A PRELIMINARY STUDY. Sturdee DW, Gustafson RC, Moore B *Postgrad Med J* 52 SUPPL 6: 52-4, 1976 (Eng) DL/77FEB352

Morelli E

METHYLGUANIDINE AND INSULIN RESPONSE IN PATIENTS ON MAINTENANCE HAEMODIALYSIS [LETTER]. Ferrannini E, Navalesi R, Pilo A, Morelli E *Lancet* 2: 1028-9, 6 Nov 76 (Eng) DL/77FEB252

Moreno H

INSULIN DECREASES BACTERIAL MEMBRANE FLUIDITY. IS IT A GENERAL EVENT IN ITS ACTION? Moreno H, Farias RN *Biochem Biophys Res Commun* 72: 74-80, 7 Sep 76 (Eng) DL/77FEB508

ADENOSINE TRIPHOSPHATASE (metabolism); CALCIUM (pharmacodynamics); CELL MEMBRANE (drug effects, metabolism, ultrastructure); ENZYME ACTIVATION; ESCHERICHIA COLI (drug effects, metabolism, ultrastructure); INSULIN (pharmacodynamics); KINETICS; SODIUM (pharmacodynamics).

Morgan A

DIABETIC KETOALKALOSIS [LETTER]. Melrose E, Morgan A, Harrower AD, Smith AW *Br Med J* 2: 237, 24 Jul 76 (Eng) DL/77FEB21

Morgan HE

EFFECTS OF ANOXIA AND ISCHEMIA ON PROTEIN SYNTHESIS IN PERFUSED RAT HEARTS. Kao R, Rannels DE, Morgan HE *Circ Res* 38: 1124-30, May 76 (Eng) *DL/77FEB536

Morin C

[COMA CAUSED BY HYPEROSMOLARITY] Morin C, Bernier J *Union Med Can* 105: 1174-80, Aug 76 (Fre) DL/77FEB422

DIABETIC COMA (etiology, metabolism, physiopathology, therapy); ENGLISH ABSTRACT; HUMAN; MIDDLE AGE; OSMOLAR CONCENTRATION.

Morita S

EXTRAPANCREATIC GLUCAGON IN THE DOG. Vranic M, Engerman R, Doi K, Morita S, Yip CC *Metabolism* 25: 1469-73, Nov 76 (Eng) DL/77FEB302

Moritz V

[THE SIGNIFICANCE OF STRESS INTENSITY FOR THE EMOTIONAL AND VISCERAL REACTIVITY, ESPECIALLY FOR BLOOD PRESSURE REGULATION] Hecht K, Hai NV, Moritz V, Hecht T *Acta Biol Med Ger* 35: 23-33, 1976 (Ger) DL/77FEB448

[CORRELATIONS BETWEEN HIPPOCAMPUS FUNCTION AND STRESSED LEARNING AND THEIR EFFECT ON CEREBRO-VISCERAL REGULATION PROCESSES] Hecht K, Hai NV, Hecht T, Moritz V, Woosmann H *Acta Biol Med Ger* 35: 35-45, 1976 (Ger) DL/77FEB449

INSULIN KINETIC, GLUCOSE TOLERANCE, AND LIPID METABOLISM IN GENETICALLY SPONTANEOUS-HYPERTENSIVE RATS. Baumann R, Moritz V, Godicke W, Postnow JW, Ziegler M *Acta Biol Med Ger* 35: k 33-9, 1976 (Eng) DL/77FEB451

Mornex R

[LOW THYROTROPE HORMONE: A NEW ENTITY] Berthezene F, Paffoy JC, Escallier A, Bizollon C, Mornex R *Nouv Presse Med* 5: 2138-40, 9 Oct 76 (Fre) DL/77FEB343

Morris JW

TRIACETYLATED INSULIN: BIOLOGIC ACTIVITY AND RESISTANCE TO DEGRADATION. Kaplan SA, Morris JW, Davidson MB, Gerschenson LE, Scott M *Metabolism* 25: 1209-16, Nov 76 (Eng) DL/77FEB261

Mortimore GE

BEHAVIOR OF THE LYSOSOMAL SYSTEM DURING ORGAN PERFUSION. AN INQUIRY INTO THE MECHANISM OF HEPATIC PROTEOLYSIS. Mortimore GE, Ward WF *Front Biol* 45: 157-84, 1976 (Eng) [65] DL/77FEB80

ACID PHOSPHATASE (metabolism); AMINO ACIDS (pharmacodynamics); ANIMAL; GLUCAGON (pharmacodynamics); INSULIN (pharmacodynamics); LIVER (metabolism, ultrastructure); LYSOSOMES (enzymology, metabolism, ultrastructure); PERFUSION; PROTEINS (biosynthesis, metabolism); RATS. REVIEW; WATER-ELECTROLYTE BALANCE.

Moskowitz M

MONCKEBERGS ARTERIOSCLEROSIS REVISITED: OR SILVER VESSELS AMONG THE OLD. Moskowitz M, Verani M *J Can Assoc Radiol* 27: 200-2, Sep 76 (Eng) DL/77FEB162

AGE FACTORS; AGED; ARTERIOSCLEROSIS (complications, occurrence, radiography); DIABETES MELLITUS (complications); HUMAN; HYPERCHOLESTEREMIA (occurrence); HYPERLIPIDEMIA (occurrence); MIDDLE AGE; OHIO; TRIGLYCERIDES (blood).

Moss RL

CONTROL OF GONADOTROPIN AND PROLACTIN SECRETION BY HYPOTHALAMIC RELEASING AND INHIBITING HORMONES. PP. 80-9. McCann SM, Cooper K, Harms PG, Libertun C, Negro-Vilar A, Ojeda SR, Orian R, Moss RL, Fawcett CP, Krulich L, Gilon C, Amoss M, Rivier C, Ling N, Burgess R, Guillemin R *In: Lederis K, Cooper KE, ed. Recent studies of hypothalamic function.* Basel, Karger, 1974. WL 312 165r 1973. (Eng) *DL/77FEB589

Mostaghni K

THE EFFECT OF CHANGES IN BLOOD GLUCOSE ON THE MOTILITY OF THE DUODENUM IN SHEEP. Mostaghni K, Howard BR *Cornell Vet* 66: 598-603, Oct 76 (Eng) DL/77FEB59

ANIMAL; BLOOD SUGAR (analysis); DUODENUM (physiology); FEMALE; GASTROINTESTINAL MOTILITY; INSULIN (pharmacodynamics); SHEEP (blood, physiology).

Mougenot JF

[THE SMALL LEFT COLON SYNDROME. 3 CASES] Neuwenschwander S, Montagne JP, Boudou A, Boudon D, Mougenot JF, Gruner M, Faure C *Nouv Presse Med* 6: 2311-4, 23 Oct 76 (Fre) DL/77FEB346

Moura AM

THE EFFECTS OF HORMONES AND PROSTAGLANDINS ON THE CALCIUM POOLS IN CULTURED MYOCARDIAL CELLS. Moura AM, Simpkins H *Mol Cell Endocrinol* 5: 349-57, OCT 76 (Eng) DL/77FEB98
ANIMAL; BIOLOGICAL TRANSPORT; CALCIUM (metabolism); CELLS, CULTURED; EPINEPHRINE (pharmacodynamics); GLUCAGON (pharmacodynamics); HEART (drug effects); KINETICS; MATHEMATICS; MYOCARDIUM (metabolism); PROSTAGLANDINS E (pharmacodynamics); PROSTAGLANDINS F (pharmacodynamics); RATS.

Mowbray J

GROWTH HORMONE, CYCLIC NUCLEOTIDES AND THE RAPID CONTROL OF TRANSLATION IN HEART MUSCLE. Mowbray J, Davies JA, Bates DJ, Jones CJ *Biochem J* 152: 583-92, Dec 75 (Eng) *DL/77FEB12
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); AMINO ACIDS (metabolism); ANIMAL EXPERIMENTS (analysis); GUANOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); IN VITRO; MALE; MYOCARDIUM (metabolism); PERFUSION; PROTEINS (metabolism); RATS; SOMATOTROPIN (isolation & purification, pharmacodynamics); TIME FACTORS; TRANSLATION, GENETIC (drug effects); TYROSINE (metabolism).

Moy P

MULTIPOTENT LIPOTROPIC HORMONES. IN SEARCH OF A PITUITARY CELL PRODUCING MULTIPOTENT LPH. Furth J, Chretien M, Lis M, Belanger A, Moy P, Grauman J *Arch Pathol* 99: 572-81, Nov 75 (Eng) *DL/77FEB170

Muck BR

[THE GLYCOGEN CONTENT OF BLOOD AND UTERINE TISSUE IN WOMEN WITH MYOMA AND ENDOMETRIOSIS (AUTHORS TRANSL)] Muck BR, Hommel G *Arch Gynaekol* 221: 129-37, 17 Sep 76 (Ger) DL/77FEB493
BLOOD SUGAR (analysis); CERVIX UTERI (analysis); ENDOMETRIOSIS (blood); ENDOMETRIUM (analysis); ENGLISH ABSTRACT; FEMALE; GLYCOGEN (analysis, blood); HUMAN; HYSTERECTOMY; INSULIN (blood); LEIOMYOMA (blood); MATHEMATICS; MENOPAUSE; MENSTRUATION; UTERINE NEOPLASMS (blood).

Muller EE

NEUROENDOCRINE CONTROL OF GROWTH HORMONE SECRETION: EXPERIMENTAL AND CLINICAL STUDIES. PP. 236-51. Liuzzi A, Panerai AE, Chiodini PG, Secchi C, Cocchi D, Botalla L, Silvestrini F, Muller EE *Inol Piccola* A, Muller EE, ed. *Growth hormone and related peptides*. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB185

Mundia SS

MODE OF PRESENTATION OF JUVENILE DIABETES. Hamilton DV, Mundia SS, Lister J *Br Med J* 2: 211-2, 24 Jul 76 (Eng) DL/77FEB20

Munoz-Barragan L

GASTRIC GLUCAGON SECRETION. Blazquez E, Munoz-Barragan L, Patton GS, Dobbs R, Unger RH *Metabolism* 25: 1475-6, Nov 76 (Eng) DL/77FEB303

GASTRIC A-CELL FUNCTION IN NORMAL DOGS. Munoz-Barragan L, Blazquez E, Patton GS, Dobbs RE, Unger RH *Am J Physiol* 231: 1057-61, Oct 76 (Eng) DL/77FEB474
ANIMAL; ARGININE (pharmacodynamics); DOGS; GASTRIC MUCOSA (blood supply, cytology, secretion); GLUCAGON (blood, secretion); INSULIN (blood); PANCREAS (cytology, secretion); STIMULATION, CHEMICAL; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; VEINS (analysis).

Murat JC

STUDIES ON GLYCOGENOLYSIS IN CARP LIVER: EVIDENCE FOR AN AMYLASE PATHWAY FOR GLYCOGEN BREAKDOWN. Murat JC *Comp Biochem Physiol [B]* 55: 461-5, 1976 (Eng) DL/77FEB58
AMYLASE (metabolism); ANIMAL; CARP (metabolism); CHLOROMERCURIBENZOATES (pharmacodynamics); CYPRINIDAE (metabolism); HYDROGEN-ION CONCENTRATION (physiology); INSULIN (pharmacodynamics); KINETICS; LIVER GLYCOGEN (metabolism); LIVER (enzymology); LIVER (drug effects); LYSOSOMES (enzymology); MITOCHONDRIA, LIVER (enzymology); SUBCELLULAR FRACTIONS (enzymology).

Murray MA

THE EFFECT OF ORAL RITODRINE ON MATERNAL AND FETAL CARBOHYDRATE METABOLISM. Blouin D, Murray MA, Beard RW *Br J Obstet Gynaecol* 83: 711-5, Sep 76 (Eng) DL/77FEB8

Nagai K

CENTRAL NERVOUS SYSTEM-MEDIATED STIMULATION OF GLUCAGON SECRETION IN THE DOG FOLLOWING 2-DEOXYGLUCOSE. Frohman LA, Nagai K *Metabolism* 25: 1449-52, Nov 76 (Eng) DL/77FEB295

Nagy BR

EFFECTS OF IODOACETATE AND FLUORIDE ON ISLATE RESPIRATION AND INSULIN BIOSYNTHESIS. Lin BJ, Henderson MJ, Levine BB, Nagy BR, Nagy EM *Horm Metab Res* 8: 353-8, Sep 76 (Eng) DL/77FEB141

Nagy EM

EFFECTS OF IODOACETATE AND FLUORIDE ON ISLATE RESPIRATION AND INSULIN BIOSYNTHESIS. Lin BJ, Henderson MJ, Levine BB, Nagy BR, Nagy EM *Horm Metab Res* 8: 353-8, Sep 76 (Eng) DL/77FEB141

Naito HK

A MODEL FOR THERAPEUTIC INTERVENTIONS ON ESTABLISHED CORONARY ATHEROSCLEROSIS IN A NONHUMAN PRIMATE. Malinow MR, McLaughlin O, Papworth L, Naito HK, Lewis L, McNulty WP *Adv Exp Med Biol* 67: 3-31, 1976 (Eng) *DL/77FEB694

Najarian JS

SPECIAL PROBLEMS IN DIABETIC RENAL TRANSPLANTATION. Simmons RL, Payne WD, Sutherland DE, Howard RJ, Goetz FC, Barbosa J, Kjellstrand CM, Najarian JS *Urol Clin North Am* 3: 691-9, Oct 76 (Eng) DL/77FEB424

Nakabayashi H

THE EFFECTS OF GLUCAGON ADMINISTRATION TO NONDIABETICS AND DIABETICS. Unger RH, Aydin I, Nakabayashi H, Srikant CB, Raskin P *Metabolism* 25: 1523-6, Nov 76 (Eng) DL/77FEB315

Nakagawa M

SOME FACTORS AFFECTING CHAIN ELONGATION OF PALMITYL-CoA IN RAT LIVER MICROSOMES. Nakagawa M, Kawashima Y, Uchiyama M *Chem Pharm Bull (Tokyo)* 24: 46-51, Jan 76 (Eng) *DL/77FEB533

ANIMAL EXPERIMENTS (analysis); COENZYME A (metabolism); COMPARATIVE STUDY; FEMALE; MICROSOMES, LIVER (metabolism); PALMITIC ACIDS (metabolism); PEPTIDE CHAIN ELONGATION; PHOSPHATIDYL CHOLINE (pharmacodynamics); PHOSPHOLIPASE (pharmacodynamics); RATS; STEARIC ACIDS (biosynthesis).

Nakagawa S

HLA AND JUVENILE DIABETES MELLITUS IN THE JAPANESE [LETTER]. Wakisaka A, Aizawa M, Matsuura N, Nakagawa S, Nakayama E *Lancet* 2: 970, 30 Oct 76 (Eng) DL/77FEB249

Nakai T

[FUNCTION TEST OF THE HUMAN FETAL PANCREAS (AUTHORS TRANSL)] Nakai T, Yamada R *Jpn J Clin Pathol* 24: 673-7, Aug 76 (Jpn) DL/77FEB221
ADULT; FEMALE; FETAL BLOOD (analysis); FETUS (metabolism); HUMAN; INFANT, NEWBORN; INSULIN (blood); MATERNAL-FETAL EXCHANGE; PANCREAS (metabolism); PREGNANCY.

Nakayama E

HLA AND JUVENILE DIABETES MELLITUS IN THE JAPANESE [LETTER]. Wakisaka A, Aizawa M, Matsuura N, Nakagawa S, Nakayama E *Lancet* 2: 970, 30 Oct 76 (Eng) DL/77FEB249

Nappi G

INSULIN SECRETION IN MIGRAINE: INFLUENCE ON THE BLOOD LEVELS OF TRYPTOPHAN. Poloni M, Nappi G, Bono G, Roggi C, Arpesella M, Virgilio P *Monogr Neural Sci* 3: 67-70, 1976 (Eng) DL/77FEB322

Nash JR

THE USE OF FICOLL IN THE SEPARATION OF VIABLE ISLETS OF LANGERHANS FROM THE RAT PANCREAS. Nash JR, Horlor M, Bell PR *Transplantation* 22: 411-2, Oct 76 (Eng) DL/77FEB415

ANIMAL; CELL SEPARATION (methods); CENTRIFUGATION, DENSITY GRADIENT; FICOLL (pharmacodynamics); ISLANDS OF LANGERHANS (analysis); POLYSACCHARIDES (pharmacodynamics); RATS.

Navalesi R

METHYLGUANIDINE AND INSULIN RESPONSE IN PATIENTS ON MAINTENANCE HAEMODIALYSIS [LETTER]. Ferrannini E, Navalesi R, Pilo A, Morelli E *Lancet* 2: 1028-9, 6 Nov 76 (Eng) DL/77FEB252

Naveri H

PHYSICAL ACTIVITY AND HORMONES. Adlercreutz H, Harkonen M, Kuoppasalmi K, Kosunen K, Naveri H, Rehunen S *Adv Cardiol* 18: 144-57, 1976 (Eng) DL/77FEB461

Nechipurenko LV

[ANALYSIS OF BREAST CELL DIFFERENTIATION IN TISSUE CULTURE UNDER THE INFLUENCE OF HORMONES] Kalantar IL, Khrestaleva GI, Nechipurenko LV, Medvedev IK *Tsitologiya* 18: 1014-9, Aug 76 (Rus) DL/77FEB416

Neely JR

INHIBITION OF GLYCOLYSIS IN HEARTS DURING ISCHEMIC PERFUSION. Neely JR, Whitmer JT, Rovetto MJ *Recent Adv Stud Cardiac Struct Metab* 7: 243-8, 1975 (Eng) *DL/77FEB665

ANAEROBIOSES; ANIMAL EXPERIMENTS (analysis); ANOXIA (metabolism, physiopathology); CORONARY DISEASE (metabolism, physiopathology); DISEASE MODELS, ANIMAL; GLYCOLYSIS; HEART

Negro-Vilar A

RATE; HEART (physiopathology); LACTATES (metabolism); MYOCARDIUM (metabolism); PERFUSION; PHILIPPINES (physiology); RATS.

Negro-Vilar A

CONTROL OF GONADOTROPIN AND PROLACTIN SECRETION BY HYPOTHALAMIC RELEASING AND INHIBITING HORMONES. PP. 80-9. McCann SM, Cooper K, Harms PG, Libertun C, Negro-Vilar A, Ojeda SR, Orias R, Moss RL, Fawcett CP, Krulich L, Gilon C, Amoss M, Rivier C, Ling N, Burgess R, Guillemain R. *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function. Basel, Karger, 1974. WL 312 165r 1973. (Eng) *DL/77FEB589*

Nelson JB

EFFECTS OF CHANGES IN THE CONCENTRATIONS OF SUBSTRATE AND OXYGEN ON THE PERFUSED RABBIT HEART. Whereat AF, Nelson JB. *Recent Adv Stud Cardiac Struct Metab 7: 211-7, 1975 (Eng) *DL/77FEB660*

Nelson TE

ASSOCIATION OF GLYCOGENOLYSIS WITH CARDIAC SARCOPLASMIC RETICULUM. Entam ML, Kanike K, Goldstein MA, Nelson TE, Bornet EP, Futch TW, Schwartz A. *J Biol Chem 251: 3140-6, 25 May 76 (Eng) *DL/77FEB575*

Neuenschwander S

[THE SMALL LEFT COLON SYNDROME. 3 CASES] Neuenschwander S, Montagne JP, Boudou A, Bouron D, Mougenot JF, Gruner M, Faure C. *Nouv Presse Med 6: 2311-4, 23 Oct 76 (Fre) DL/77FEB346*

CASE REPORT; COLON (embryology, innervation, radiography); COLONIC DISEASES, FUNCTIONAL (diagnosis); COLONIC DISEASES, FUNCTIONAL (therapy); CONTRAST MEDIA (therapeutic use); DIAGNOSIS, DIFFERENTIAL, ENGLISH ABSTRACT; FECES, IMPACTED (diagnosis); FEMALE; HUMAN; INFANT, LOW BIRTH WEIGHT (injuries); INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (diagnosis); INTESTINAL OBSTRUCTION (diagnosis, therapy); MALE; MEGACOLON (diagnosis); PREGNANCY IN DIABETES (complications); PREGNANCY; SYNDROME.

Neuhausser P

[CURRENT URINALYSIS] Neuhausser P. *Zah-nerzt Mitt 66: 1044-6, 16 Oct 76 (Ger) DL/77FEB446*

DIABETES MELLITUS (diagnosis); GLYCOSURIA, HUMAN, KETONE BODIES (urine); KIDNEY DISEASES (diagnosis); METHODS; PROTEINURIA.

Neville DM Jr

RADIORECEPTOR ASSAY OF PLASMA NSILA-S IN MAN: BASAL AND STIMULATED LEVELS IN NORMAL AND PATHOLOGIC STATES. PP. 127-40. Megyesi K, Kahn CR, Roth J, Gorden P, Neville DM Jr. *Ino Picile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB187*

Newby AC

A RAPID IMMUNOLOGICAL PROCEDURE FOR THE ISOLATION OF HORMONALLY SENSITIVE RAT FAT-CELL PLASMA MEMBRANE. Luzio JP, Newby AC, Hales CN. *Biochem J 154: 11-21, 15 Jan 76 (Eng) *DL/77FEB714*

Newman B

EFFECTS OF MITOGENS ON GLUCOSE OXIDATION BY LYMPHOCYTES FROM NORMAL INDIVIDUALS AND PATIENTS WITH CHRONIC LYMPHOCYTIC LEUKEMIA. Tsan MF, Chen WY, Newman B, Wagner HN Jr,

McIntyre PA. *Johns Hopkins Med J 138: 113-8, Apr 76 (Eng) *DL/77FEB603*

Nichol LW

POLYMERIZATION PATTERN OF INSULIN AT PH 7.0. Jeffrey PD, Milthorpe BK, Nichol LW. *Biochemistry 15: 4660-5, 19 Oct 76 (Eng) DL/77FEB10*

Nicosia S

EFFECTS OF IODINATION OF TYROSYL RESIDUES ON THE BINDING AND ACTION OF GLUCAGON AT ITS RECEPTOR. Lin MC, Nicosia S, Rodbell M. *Biochemistry 15: 4537-40, 5 Oct 76 (Eng) DL/77FEB9*

Niederland TR

MYOCARDIAL CELL DAMAGE DUE TO ETHANOL. Gvozdzjak A, Borovic F, Bada V, Kruty F, Niederland TR, Gvozdzjak J. *Recent Adv Stud Cardiac Struct Metab 7: 451-7, 1975 (Eng) *DL/77FEB675*

Nielsen SL

WATER FILTRATION OF THE FOREARM IN SHORT- AND LONG-TERM DIABETES MELLITUS. Poulsen HL, Nielsen SL. *Diabetologia 12: 437-40, Oct 76 (Eng) DL/77FEB111*

Nierle C

INSULIN SECRETION AND BIOSYNTHESIS IN SUCROSE FED RATS. Laube H, Schatz H, Nierle C, Fussganger R, Pfeiffer EF. *Diabetologia 12: 441-6, Oct 76 (Eng) DL/77FEB112*

Nigro N

[PREVENTION OF ARTERIOSCLEROSIS DURING CHILDHOOD: PRELIMINARY RESEARCH] Nigro N, Benso L, Martini A, Bal-tieri M, Brunet MR, Iudicello P. *Minerva Pediatr 27: 288-312, 18 Feb 75 (Ita) *DL/77FEB611*

AGE FACTORS; ARTERIOSCLEROSIS (metabolism, prevention & control); DIETARY CARBOHYDRATES (metabolism); DIETARY FATS (metabolism); ENGLISH ABSTRACT; FEMALE; HUMAN; INFANT; INFANT, NEWBORN; LIPIDS (metabolism); MALE.

Nikezic M

[INSULIN HYPOGLYCEMIA DURING TREATMENT OF DIABETES MELLITUS IN CHILDREN] Jakanovic R, Nikezic M. *Srp Arh Celok Lek 104: 49-56, Jan 76 (Ser) DL/77FEB404*

Nikoljevic O

REGULATION OF SECRETION FROM THE ADRENAL MEDULLA. EVIDENCE FOR ADENYLATE CYCLASE ACTIVITY IN SECRETORY VESICLE MEMBRANES. Zinder O, Nikoljevic O, Hoffman PG, Pollard HB. *J Biol Chem 241: 2179-81, 10 Apr 76 (Eng) *DL/77FEB569*

Nilsson IM

EFFECT OF ETHYLOESTRENOL ON FIBRINOLYSIS IN THE VESSEL WALL. Hedner U, Nilsson IM, Isacson S. *Br Med J 2: 729-31, 25 Sep 76 (Eng) DL/77FEB24*

Nilsson-Ehle P

INTRA- AND EXTRACELLULAR FORMS OF LIPOPROTEIN LIPASE IN ADIPOSE TISSUE. Nilsson-Ehle P, Garfinkel AS, Schotz MC. *Biochim Biophys Acta 431: 147-56, 22 Apr 76 (Eng) *DL/77FEB522*

ACETONE (pharmacodynamics); ADIPOSE TISSUE (drug effects, enzymology); ANIMAL EXPERIMENTS (analysis); BINDING SITES; EPIDIDYMIIS, IN VITRO; LIPOPROTEIN LIPASE (metabolism); MALE; RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Nishikawa M

THYROTOXIC PERIODIC PARALYSIS: A PECULIAR CASE WITH UNUSUAL

DYSTONIC BEHAVIOR AND VARIABLE RELATIONS OF PARALYSIS TO SERUM POTASSIUM LEVELS. Kusakabe T, Yoshida M, Nishikawa M. *J Clin Endocrinol Metab 43: 730-40, Oct 76 (Eng) DL/77FEB167*

Nishimura JS

ACETATE KINASE FROM VEILLONELLA AL-CALESCENS. REGULATION OF ENZYME ACTIVITY BY SUCCINATE AND SUBSTRATES. Bowman CM, Valdez RO, Nishimura JS. *J Biol Chem 251: 3117-21, 25 May 76 (Eng) *DL/77FEB573*

Nishina Y

COMPARISON STUDIES OF NEUROTENSIN AND XENOPIN UPON PANCREATIC SECRETION IN THE DOG [PROCEEDINGS]. Ishida T, Kawamura K, Goto A, Nishina Y, Takahara J. *Metabolism 25: 1467, Nov 76 (Eng) DL/77FEB301*

Nishino Y

VITAMIN B2 METABOLISM IN THE ISOLATED PERFUSED RAT LIVER. Okuyama S, Ito S, Nishino Y. *Gastroenterol Jpn 11: 5-10, 1976 (Eng) DL/77FEB130*

Nissley SP

STIMULATION OF DNA SYNTHESIS, CELL MULTIPLICATION, AND ORNITHINE DECARBOXYLASE IN 3T3 CELLS BY MULTIPLICATION STIMULATING ACTIVITY (MSA). Nissley SP, Passamani J, Short P. *J Cell Physiol 89: 393-402, NOV 76 (Eng) DL/77FEB163*

CARBOXY-LYASES (metabolism); CELL DIVISION (drug effects); CELL LINE; DOSE-RESPONSE RELATIONSHIP, DRUG; DNA (biosynthesis); GROWTH SUBSTANCES (pharmacodynamics); INSULIN (pharmacodynamics); ORNITHINE DECARBOXYLASE (metabolism); THYMIDINE (metabolism).

Nizet AH

GLUCAGON AND GASTRIN RELEASE BY THE ISOLATED PERFUSED DOG STOMACH IN RESPONSE TO ARGININE. Lefebvre PJ, Luyckx AS, Brassinne AH, Nizet AH. *Metabolism 25: 1447-9, Nov 76 (Eng) DL/77FEB294*

Noe BD

BIOSYNTHESIS OF GLUCAGON. Noe BD. *Metabolism 25: 1339-41, Nov 76 (Eng) DL/77FEB269*

ANIMAL; FISHES; GLUCAGON (biosynthesis); ISLANDS OF LANGERHANS (metabolism); ISOLEUCINE (metabolism); MOLECULAR WEIGHT; PROTEIN PRECURSORS (biosynthesis); TRYPTOPHAN (metabolism).

Noguchi T

ORGAN DISTRIBUTION OF RAT HISTIDINE-PYRUVATE AMINOTRANSFERASE ISOENZYMES. Noguchi T, Minatogawa Y, Okuno E, Kido R. *Biochem J 157: 635-41, 1 Sep 76 (Eng) DL/77FEB502*

AMINOTRANSFERASES (analysis, isolation & purification, metabolism); ANIMAL; BRAIN (enzymology); GLUCAGON (pharmacodynamics); HISTIDINE; HYDROGEN-ION CONCENTRATION (physiology); ISOENZYMES (analysis); KIDNEY (enzymology); LIVER (enzymology); MYOCARDIUM (enzymology); ORGAN SPECIFICITY; PYRUVATES; RATS.

Norton TR

A POLYPEPTIDE (AP-A) FROM SEA ANEMONE (ANTHOPELEURA XANTHOGRAMMICA) WITH POTENT POSITIVE INOTROPIC ACTION. Shibata S, Norton TR, Izumi T, Matsuo T, Katsuki S. *J Pharmacol Exp Ther 199: 298-309, Nov 76 (Eng) DL/77FEB210*

Diabetes Literature—Author Index

Okuda H

Nowotna-Walcowa R

[EVALUATION OF GLIPIZIDE] Nowotna-Walcowa R, Szajewski JM, Walc J *Wiad Lek* 29: 1607-10, 15 Sep 76 (Pol) DL/77FEB431
DIABETES MELLITUS (drug therapy); DRUG EVALUATION; ENGLISH ABSTRACT; GLIPIZIDE (metabolism, therapeutic use); HUMAN; INTESTINAL ABSORPTION; SULFONYLUREA COMPOUNDS (therapeutic use).

Nunn WD

EVIDENCE FOR A DIRECT EFFECT ON FATTY ACID SYNTHESIS IN RELATION TO THE CONTROL OF MEMBRANE PHOSPHOLIPID SYNTHESIS. Nunn WD, Cronan JE Jr *J Mol Biol* 102: 167-72, 25 Mar 76 (Eng) *DL/77FEB602
ARGININE (metabolism); CELL MEMBRANE (metabolism); ESCHERICHIA COLI (metabolism); FATTY ACIDS (biosynthesis); GENES; MUTATION; PHOSPHOLIPIDS (biosynthesis); SPECIES SPECIFICITY; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Nutt G

ORAL CANDIDA, DEBILITATING DISEASE AND ATROPHIC LESIONS OF THE TONGUE. Farman AG, Nutt G *J Biol Buccale* 4: 203-26, Sep 76 (Eng) DL/77FEB158

Nuttali FQ

INSULIN STIMULATION OF HEART GLYCOGEN SYNTHASE D PHOSPHATASE (PROTEIN PHOSPHATASE). Nuttali FQ, Gannon MC, Corbett VA, Wheeler MP *J Biol Chem* 251: 6724-9, 10 Nov 76 (Eng) DL/77FEB160
ALLOXAN DIABETES (enzymology); ANIMAL; FASTING; GLYCOGEN SYNTHETASE PHOSPHATASE (metabolism); GLYCOGEN SYNTHETASE (metabolism); HEART (drug effects); INSULIN (pharmacodynamics); KINETICS; MALE; MYOCARDIUM (enzymology); PHOSPHOMONOESTERASES (metabolism); RATS.

Nyberg G

HUMAN ADIPOSE TISSUE IN CULTURE. VI. EFFECT OF AGE ON CELL SIZE AND LIPOLYSIS. Nyberg G, Mellgren G, Smith U *Acta Paediatr Scand* 65: 313-8, May 76 (Eng) *DL/77FEB687

ADIPOSE TISSUE (cytology, metabolism); AGING; CHILD; PRESCHOOL; FEMALE; GLYCERIN (metabolism); HUMAN; INFANT; INFANT, NEWBORN; MALE.

Nyka WM

CEREBRAL LESIONS OF MATURE NEWBORN DUE TO PERINATAL HYPOXIA. II. MOTHERS' DISEASES. Nyka WM *Z Geburtshilfe Perinatol* 180: 295-9, Aug 76 (Eng) DL/77FEB440

ANEMIA, HYPOCHROMIC (complications); BRAIN DAMAGE, CHRONIC (etiology, pathology); BRAIN STEM (pathology); BRAIN (pathology); FEMALE; FETAL ANOXIA (etiology, pathology); HUMAN; INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (etiology, pathology); PREGNANCY IN DIABETES (complications); PREGNANCY COMPLICATIONS; PREGNANCY COMPLICATIONS, HEMATOLOGIC (complications); PREGNANCY TOXEMIAS (complications); PREGNANCY.

Oates JA

RAPID ONSET OF ESSENTIAL FATTY ACID DEFICIENCY IN THE NEWBORN. Friedman Z, Danon A, Stahlman MT, Oates JA *Pediatrics* 58: 640-9, Nov 76 (Eng) DL/77FEB337

Oberman Z

WEIGHT LOSS IN PATIENTS TREATED LONG-TERM WITH LEVODOPA. METABOLIC ASPECTS. Vardi J, Oberman Z, Rabey I, Strei-

fler M, Ayalon D, Herzberg M *J Neurol Sci* 30: 33-40, Nov 76 (Eng) DL/77FEB201

Obuchowicz-Fidelus B

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL AND GROWTH HORMONE LEVELS IN YOUNG WEIGHT LIFTERS] Lukaszewska J, Biczowa B, Bobilewicz D, Wilk M, Obuchowicz-Fidelus B *Endokrynol Pol* 27: 149-57, Mar-Apr 76 (Pol) *DL/77FEB549

OConnell FX

VOVULUS OF THE SMALL BOWEL IN A DIABETIC PATIENT [LETTER]. Fitzgerald GA, Colgan B, Drury MI, OConnell FX *Br Med J* 2: 945, 16 Oct 76 (Eng) DL/77FEB29

Oda T

METABOLISM OF MALTOSE DURING SURGERY IN PATIENTS WITH DIABETES MELLITUS UNDER GENERAL ANESTHESIA. Yoshikawa K, Oda T *Res Exp Med (Berl)* 167: 127-38, 15 May 76 (Eng) DL/77FEB374

ODonnell TF

ENERGY METABOLISM AND PROTEOLYSIS IN TRAUMATIZED AND SEPTIC MAN. Clowes GH Jr, O'Donnell TF, Blackburn GL, Maki TN *Surg Clin North Am* 56: 1169-84, Oct 76 (Eng) [53] DL/77FEB406

Oe N

[CLINICAL STUDIES ON INSULIN RESPONSE TO GLUCOSE TOLERANCE TEST IN PATIENTS WITH PULMONARY TUBERCULOSIS (AUTHORS TRANSL)] Oe N *Kekkaku* 51: 313-28, 15 Aug 76 (Jpn) DL/77FEB222
ADULT; AGED; BLOOD SUGAR (metabolism); DIABETES MELLITUS (blood); ENGLISH ABSTRACT; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); MALE; MIDDLE AGE; TUBERCULOSIS, PULMONARY (blood).

Oepen H

[FATTY ACID PATTERNS AND GLUCOSE TOLERANCE IN HUNTINGTONS CHOREA (AUTHORS TRANSL)] Schubert R, Hausmann L, Kaffarnik H, Zehner J, Oepen H *Res Exp Med (Berl)* 167: 203-15, 2 Jul 76 (Ger) DL/77FEB376

Ofuji N

[IN VITRO ASSAY FOR ACTH-RELEASING ACTIVITY USING ACTH RADIOIMMUNOASSAY: ACTH RELEASING ACTIVITIES BY VARIOUS DRUGS (AUTHORS TRANSL)] Hashimoto K, Takahara J, Hosogi H, Ofuji N, Yasuhara T *Folia Endocrinol Jpn* 52: 114-24, 20 Feb 76 (Jpn) DL/77FEB82

Oganesian SS

[TREATMENT OF MOIST GANGRENE OF THE LOWER LIMBS IN PATIENTS WITH DIABETES MELLITUS] Struchkov VI, Grigoriyan AV, Oganesian SS *Khirurgiya (Mosk)* 63-8, Sep 76 (Rus) DL/77FEB225

Ogletree ML

LACK OF A SIGNIFICANT PROTECTIVE EFFECT OF AUGMENTED CIRCULATING GLUCOSE ON THE ISCHEMIC MYOCARDIUM. RJ Spath JA, Ogletree ML, Lefler AM *Can J Physiol Pharmacol* 54: 423-9, Aug 76 (Eng) DL/77FEB36

Oh TE

INSULIN LOSS IN PARENTERAL NUTRITION SYSTEMS. Oh TE, Dyer H, Wall BP, Hall RA, Jellett LB *Anaesth Intensive Care* 4: 342-6, Nov 76 (Eng) DL/77FEB484
ADSORPTION; GLASS; GLUCOSE; HUMAN; INSULIN; PARENTERAL FEEDING (instrumentation); PLASTICS; SERUM ALBUMIN; SOLUTIONS.

Ohlson DL

INFLUENCE OF CHRONIC THYROTROPIN-RELEASING HORMONE INJECTIONS ON SECRETION OF PROLACTIN, THYROTROPIN AND GROWTH HORMONE AND ON GROWTH RATE IN WETHER LAMBS. Davis SL, Hill DM, Ohlson DL, Jacobs JA *J Anim Sci* 42: 1244-50, May 76 (Eng) *DL/77FEB566

Ohlson MA

DIET THERAPY IN THE U.S. IN THE PAST 200 YEARS. A BICENTENNIAL STUDY. Ohlson MA *J Am Diet Assoc* 69: 490-7, Nov 76 (Eng) DL/77FEB171

ADULT; CARDIOVASCULAR DISEASES (diet therapy, prevention & control); CHILD; DIABETES MELLITUS (diet therapy); DIABETES MELLITUS, JUVENILE (diet therapy); DIET FADS; DIET THERAPY (history); DIETETICS (history); DIGESTION; FOOD ANALYSIS; HISTORICAL ARTICLE; HUMAN; MALE; NUTRITIONAL REQUIREMENTS; OBESITY (diet therapy, prevention & control); UNITED STATES; VEGETARIANISM.

Ojeda SR

CONTROL OF GONADOTROPIN AND PROLACTIN SECRETION BY HYPOTHALAMIC RELEASING AND INHIBITING HORMONES. PP. 80-9. McCann SM, Cooper K, Harms PG, Libertun C, Negro-Vilar A, Ojeda SR, Orias R, Moss RL, Fawcett CP, Krulich L, Gilon C, Amoss M, Rivier C, Ling N, Burgess R, Guillemain R *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function*. Basel, Karger, 1974. WL 312 165r 1973. (Eng) *DL/77FEB589

Okada Y

HIGH CONCENTRATION OF GABA AND HIGH GLUTAMATE DECARBOXYLASE ACTIVITY IN RAT PANCREATIC ISLETS AND HUMAN INSULINOMA. Okada Y, Taniguchi H, Shimada C *Science* 194: 620-2, 5 Nov 76 (Eng) DL/77FEB398

AMINO BUTYRIC ACIDS (metabolism); ANIMAL; CARBOXY-LYASES (metabolism); GLUTAMATE DECARBOXYLASE (metabolism); GABA (metabolism); HUMAN; ISLANDS OF LANGERHANS (enzymology, metabolism); ISLET CELL TUMOR (enzymology, metabolism); PANCREAS (metabolism); RATS.

Oksanen A

INSULIN IN POST-MORTEM BLOOD. A COMMENT. Oksanen A *Z Rechtsmed* 77: 311-2, 21 Apr 76 (Eng) DL/77FEB433
ANTIGENS (analysis); BINDING SITES, ANTIBODY; DEATH, SUDDEN; FORENSIC MEDICINE; HUMAN; INSULIN ANTIBODIES (analysis); INSULIN (blood); POSTMORTEM CHANGES; RADIOIMMUNOASSAY; SUICIDE.

Okuda H

TRIGLYCERIDE METABOLISM IN EPIDIDYMAL ADIPOSE TISSUE OF OBESE ANIMALS. Okuda H *Pharmacol Biochem Behav* 3: 145-7, 1975 (Eng) *DL/77FEB626

ACETATES (metabolism); ADIPOSE TISSUE (drug effects, metabolism); ANIMAL EXPERIMENTS (analysis); BODY WEIGHT; EPIDIDYMI; EPINEPHRINE (pharmacodynamics); GLUCOSE (metabolism); LIPASE (metabolism); LIPID MOBILIZATION (drug effects); MALE; MICE; MICE, OBESE; OBESITY (metabolism); ORGAN WEIGHT; PALMITIC ACIDS (metabolism); SPECIES SPECIFICITY; TRIGLYCERIDES (metabolism).

MECHANISM OF ACTIONS OF ADRENALINE AND ACTH IN FAT MOBILIZATION. Okuda H *Pharmacol Biochem Behav* 3: 149-53, 1975 (Eng) *DL/77FEB627

ADIPOSE TISSUE (drug effects, enzymology, ultrastructure); ANIMAL EXPERIMENTS (analysis); CALCIUM (pharmacodynamics);

Okuno E

CELL NUCLEUS (ultrastructure);
CORTICOTROPIN (pharmacodynamics);
EPIDIDYMIS; EPINEPHRINE
(pharmacodynamics); FASTING; KINETICS;
LIPASE (metabolism); LIPID MOBILIZATION
(drug effects); MALE; RATS; TRITONS
(pharmacodynamics).

Okuno E

ORGAN DISTRIBUTION OF RAT HISTIDINE-
PYRUVATE AMINOTRANSFERASE ISOEN-
ZYMES. Noguchi T, Minatogawa Y, Okuno E,
Kido R *Biochem J* 157: 635-41, 1 Sep 76 (Eng)
DL/77FEB502

Okuyama S

VITAMIN B2 METABOLISM IN THE ISOLATED
PERFUSED RAT LIVER. Okuyama S, Ito S,
Nishino Y *Gastroenterol Jpn* 11: 5-10, 1976
(Eng) DL/77FEB130

ALLOXAN DIABETES (metabolism); ANIMAL;
CHOLINE DEFICIENCY (metabolism);
FEMALE; FAD (metabolism); FMN
(metabolism); IN VITRO; LIVER CIRRHOSIS
(metabolism); LIVER (metabolism); MALE;
PERFUSION; RATS; RIBOFLAVIN
DEFICIENCY (metabolism); RIBOFLAVIN
(metabolism).

Oldewurtel HA

MYOCARDIAL ION AND LIPID CHANGES
DURING ISCHEMIA AND CATECHOLAMINE
INDUCED NECROSIS: RELATION TO RE-
GIONAL BLOOD FLOW. Regan TJ, Markov A,
Khan MI, Jesrani MU, Oldewurtel HA, Ettinger
PO *Recent Adv Stud Cardiac Struct Metab* 1: 656-
64, 1972 (Eng) *DL/77FEB649

Oliver MF

THE EFFECT OF ANTILIPOLYTIC AGENTS ON
CYCLIC AMP, FREE FATTY ACID AND
TOTAL CATECHOLAMINE CONCENTRA-
TIONS IN PLASMA. Strange RC, Rowe MJ,
Mjos OD, Oliver MF *Acta Med Scand* 199: 421-4,
1976 (Eng) *DL/77FEB691

Olson RE

ENERGY STATE AND ULTRASTRUCTURE OF
THE SUBSTRATE-DEPLETED HEART. Dhalla
NS, Yates JC, Olson RE *Recent Adv Stud Cardiac
Struct Metab* 1: 81-94, 1972 (Eng)
*DL/77FEB654

Onishi T

[GIANT TUMOR OF THE MEDIASTINUM AS-
SOCIATED WITH HYPOGLYCEMIA: STUDY
OF HYPOGLYCEMIA CAUSED BY EXTRA-
PANCREATIC TUMOR] Ishikawa S, Suzuki R,
Onishi T *J Jpn Assoc Thorac Surg* 24: 967-75, Jul
76 (Jpn) DL/77FEB194

Onkelinx C

EFFECTS OF TRIETHYLENETETRAMINE
UPON THE METABOLISM AND TOXICITY
OF 63NICKEL IN RATS. Sunderman FW Jr,
Kasprzak K, Horak E, Gitlitz P, Onkelinx C *Toxi-
col Appl Pharmacol* 38: 177-88, Oct 76 (Eng)
DL/77FEB414

Onnen K

INCORPORATION OF AMINO ACID INTO
TOTAL AND CONTRACTILE PROTEIN OF
TISSUE SLICES OF THE HYPERTROPHYING
RAT HEART. Wollenberger A, Onnen K *Recent
Adv Stud Cardiac Struct Metab* 1: 186-9, 1972
(Eng) *DL/77FEB638

Opie LH

EFFECTS OF REGIONAL ISCHEMIA ON
METABOLISM OF GLUCOSE AND FATTY
ACIDS. RELATIVE RATES OF AEROBIC AND
ANAEROBIC ENERGY PRODUCTION DURING
MYOCARDIAL INFARCTION AND COM-
PARISON WITH EFFECTS OF ANOXIA. Opie
LH *Circ Res* 38: i52-74, May 76 (Eng)
*DL/77FEB539

ADENOSINE TRIPHOSPHATE (biosynthesis);
AEROBIC; ANAEROBIC; ANIMAL
EXPERIMENTS (analysis); ANOXIA
(metabolism); COLLATERAL CIRCULATION;
COMPARATIVE STUDY; CORONARY
CIRCULATION; DOGS; ENERGY
METABOLISM; FATTY ACIDS (metabolism);
GLUCOSE (metabolism); GLYCOLYSIS; LIPIDS
(metabolism); MODELS, BIOLOGICAL;
MYOCARDIAL CONTRACTION;
MYOCARDIAL INFARCT (metabolism);
MYOCARDIUM (metabolism); PHILIPPINES
(physiology).

CATECHOLAMINES AND MYOCARDIAL IN-
FARCTION. Young RC, Thomas M, Evans ME,
Opie LH *Recent Adv Stud Cardiac Struct Metab*
1: 163-8, 1972 (Eng) *DL/77FEB637

ESTIMATED GLYCOLYTIC FLUX IN IN-
FARCTING HEART. Opie LH, Owen P, Lubbe
W *Recent Adv Stud Cardiac Struct Metab* 7: 249-
55, 1975 (Eng) *DL/77FEB666

ADENOSINE TRIPHOSPHATE (metabolism);
ANIMAL EXPERIMENTS (analysis);
CORONARY CIRCULATION; CORONARY
DISEASE (metabolism); FATTY ACIDS,
NONESTERIFIED (metabolism); GLUCOSE
(metabolism); GLUCOSEPHOSPHATES
(metabolism); GLYCOGEN (metabolism);
GLYCOLYSIS; HUMAN; MYOCARDIAL
INFARCT (metabolism); MYOCARDIUM
(metabolism); OXYGEN CONSUMPTION;
PHOSPHOFRUCTOKINASE (metabolism).

opperman W

INTENSIVE CARE OF THE PREGNANT
DIABETIC. Gugliucci CL, OSullivan MJ, opper-
man W, Gordon M, Stone ML *Am J Obstet
Gynecol* 125: 435-41, 15 JUN 76 (Eng)
DL/77FEB469

Oppermann W

ELEVATED KIDNEY GLUCOSYLTRANS-
FERASE ACTIVITY IN GENETIC PRE-
DIABETIC MICE. Reddi AS, Oppermann W,
Reddy MP, Velasco CA, Camerini-Davalos RA
Experientia 32: 1237-8, 15 Oct 76 (Eng)
DL/77FEB75

Oratz M

EARLY CHANGES IN ACUTE CARDIAC OVER-
LOAD: STUDIES ON ADENYL CYCLASE AC-
TIVITY, CYCLIC 35-AMP, AND MYOSIN
SYNTHESIS. Schreiber SS, Klein I, Oratz M,
Evans C, Gueyikian I, Rothschild MA *Recent
Adv Stud Cardiac Struct Metab* 1: 44-58, 1972
(Eng) *DL/77FEB645

Orci L

THE MICROANATOMY OF THE ISLETS OF
LANGERHANS. Orci L *Metabolism* 25: 1303-
13, Nov 76 (Eng) [30] DL/77FEB262

ANIMAL; DIABETES MELLITUS (chemically
induced, metabolism, pathology); GLUCAGON
(metabolism); INSULIN (metabolism);
INTERCELLULAR JUNCTIONS; ISLANDS OF
LANGERHANS (cytology, metabolism,
ultrastructure); MICE; MICE, INBRED C57BL;
MICE, OBESE; RATS; REVIEW;
SOMATOTROPIN RELEASE INHIBITING
HORMONE (metabolism); STREPTOZOTOCIN.

STIMULATION OF PANCREATIC IMMU-
NOREACTIVE SOMATOSTATIN (IRS)
RELEASE BY GLUCAGON [PROCEEDINGS].
Patton GS, Dobbs R, Orci L, Vale W, Unger RH
Metabolism 25: 1499, Nov 76 (Eng)
DL/77FEB308

PHYSIOLOGY AND PATHOPHYSIOLOGY OF
GLUCAGON. Unger RH, Orci L *Physiol Rev* 56:
778-826, Oct 76 (Eng) [164] DL/77FEB365

Orias R

CONTROL OF GONADOTROPIN AND PRO-
LACTIN SECRETION BY HYPOTHALAMIC
RELEASING AND INHIBITING HORMONES.

PP. 80-9. McCann SM, Cooper K, Harms PG,
Libertun C, Negro-Vilar A, Ojeda SR, Orias R,
Moss RL, Fawcett CP, Krulich L, Gilon C,
Amoss M, Rivier C, Ling N, Burgus R, Guillemin
R InO Lederis K, Cooper KE, ed. *Recent studies of
hypothalamic function*. Basel, Karger, 1974. WL
312 165r 1973. (Eng) *DL/77FEB589

Orlandi C

[CARBOHYDRATE METABOLISM AND EN-
DOCRINAL CARCINOMA] Orlandi C *Miner-
va Ginecol* 28: 219-26, Mar 76 (Ita)
DL/77FEB330

ADOLESCENCE; ADULT; AGED;
CARBOHYDRATES (metabolism); DIABETES
MELLITUS (complications); FEMALE; HUMAN;
MIDDLE AGE; UTERINE NEOPLASMS
(complications, metabolism).

Orosz L

EFFECT OF HEPARIN ON INSULIN SECRE-
TION IN VIVO AND IN VITRO. Orosz L *Res
Exp Med (Berl)* 167: 239-54, 2 Jul 76 (Eng)
DL/77FEB377

ANIMAL; BLOOD SUGAR (analysis); DOGS;
FATTY ACIDS, NONESTERIFIED (blood);
GLUCOSE TOLERANCE TEST; HEPARIN
(pharmacodynamics); IN VITRO; INSULIN
(secretion); ISLANDS OF LANGERHANS
(secretion); MALE; RATS.

Orskov H

THE EXCRETION OF INSULIN IN URINE. El-
Allawy RM, Sonne O, Gliemann J, Orskov H,
Johansen K *Diabetologia* 12: 523-6, Oct 76 (Eng)
DL/77FEB122

Ortigosa JL

PROPRANOLOL EFFECT ON PLASMA GLU-
COSE, FREE FATTY ACID, INSULIN, AND
GROWTH HORMONE IN GRAVES DISEASE.
Ortigosa JL, Mendoza F, Argote RM, Garcia G,
Cervantes C, Parra A *Metabolism* 25: 1201-7,
Nov 76 (Eng) DL/77FEB260

ADOLESCENCE; ADULT; BLOOD SUGAR
(metabolism); FATTY ACIDS, NONESTERIFIED
(blood); FEMALE; GLUCOSE TOLERANCE
TEST; GÖTER, EXOPHTHALMIC (blood, drug
therapy); HUMAN; INSULIN (blood); MALE;
MIDDLE AGE; PROPRANOLOL
(pharmacodynamics, therapeutic use);
SOMATOTROPIN (blood).

Osorio J

INHIBITION OF THE GLUCOSE INDUCED IN-
SULIN RELEASE BY SOMATOSTATIN IN
THE ISOLATED PERFUSED RAT PANCREAS.
ACTION OF CYCLIC AMP, GLUCAGON AND
GLIBENCLAMIDE. Osorio J, Campillo JE, de
los Arcos JG, Pages I, Rodriguez E, Marasco M,
Melani F *Rev Esp Fisiol* 32: 211-6, Sep 76 (Eng)
DL/77FEB372

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE
(pharmacodynamics); ANIMAL;
COMPARATIVE STUDY; GLIBENCLAMIDE
(pharmacodynamics); GLUCAGON
(pharmacodynamics); GLUCOSE
(pharmacodynamics); INSULIN (antagonists &
inhibitors, secretion); PANCREAS (physiology);
RATS; SOMATOTROPIN RELEASE
INHIBITING HORMONE (pharmacodynamics);
STIMULATION, CHEMICAL.

Osterberg S

[PERINATAL MEDICINE IS A COMMON IN-
TEREST FOR MANY SPECIALTIES] Oster-
berg S *Lakartidningen* 73: 3444-6, 5 Oct 76
(Swe) DL/77FEB242

CONVULSIONS (diagnosis);
ELECTROENCEPHALOGRAPHY; FEMALE;
FETAL BLOOD; FETUS (physiology); HUMAN;
INFANT, SMALL FOR GESTATIONAL AGE
(injuries); MATERNAL-FETAL EXCHANGE;
OXYGEN CONSUMPTION; PERINATALOLOGY;
PREGNANCY IN DIABETES (diagnosis);

Diabetes Literature—Author Index

Patton GS

PREGNANCY; PRENATAL DIAGNOSIS;
RESPIRATION; SMOKING.

Ostrovskii IuM

[HORMONAL AND VITAMIN REGULATION OF
GLUCOSE-6-PHOSPHATASES ACTIVITY IN
THE LIVER] Vinogradov VV, Mandrik KA, Os-
trovskii IuM *Ukr Biokhim Zh* 48: 421-5, Jul-Aug
76 (Rus) DL/77FEB417

OSullivan MJ

INTENSIVE CARE OF THE PREGNANT
DIABETIC. Gugliucci CL, OSullivan MJ, opper-
man W, Gordon M, Stone ML *Am J Obstet
Gynecol* 125: 435-41, 15 JUN 76 (Eng)
DL/77FEB469

Otter HP

MYOCARDIAL HIGH ENERGY PHOSPHATES
IN EXPERIMENTAL THYROTOSIS IN
GUINEA PIGS. Jahrmarker H, Rackwitz R,
Otter HP *Recent Adv Stud Cardiac Struct Metab*
7: 199-207, 1975 (Eng) *DL/77FEB659

Ovtracht L

DISCUSSION PAPER ON CHOLINERGIC
REGULATION OF GLYCOGENOLYSIS AND
PROTEIN SECRETION IN RAT SALIVARY
GLANDS. PP. 295-6. Rossignol B, Herman G,
Keryer G, Chambaut-Guerin AM, Ovtracht L,
Bussos S, Brown EM, Fedak SA, Woodard CJ,
Aurbach GD *InO Case RM, Goebell H, ed. Stimu-
lation-secretion coupling in the gastrointestinal tract.*
Baltimore, Univ Park Press, 1976. W1 102 S859
1975. (Eng) *DL/77FEB585

Owen P

ESTIMATED GLYCOLYTIC FLUX IN IN-
FARTING HEART. Opie LH, Owen P, Lubbe
W *Recent Adv Stud Cardiac Struct Metab* 7: 249-
55, 1975 (Eng) *DL/77FEB666

Owyong LY

SERUM INSULIN SECRETION BY ADULT
MALAYSIANS. Jones JJ, Aimalt PP, Owyong LY,
Kutty MK *Med J Malaysia* 30: 285-6, Jun 76
(Eng) DL/77FEB318

Pacher M

[HL-A SYSTEM AND DIABETES MELLITUS]
Scherthaner G, Ludwig H, Eibl M, Erd W,
Pacher M, Mayr WR *Schweiz. Med Wochenschr*
106: 514-7, 10 Apr 76 (Ger) DL/77FEB394

Padiou P

ERICIC ACID METABOLISM BY CULTURED
BEATING HEART CELLS OF THE POST-
NATAL RAT. Pinson A, Padiou P *Recent Adv
Stud Cardiac Struct Metab* 7: 29-40, 1975 (Eng)
*DL/77FEB672

Paffoy JC

[LOW THYROTROPE HORMONE: A NEW EN-
TITY] Berthezene F, Paffoy JC, Escallier A,
Bizollon C, Mornex R *Nouv Presse Med* 5: 2138-
40, 9 Oct 76 (Fre) DL/77FEB343

Pages I

INHIBITION OF THE GLUCOSE INDUCED IN-
SULIN RELEASE BY SOMATOSTATIN IN
THE ISOLATED PERFUSED RAT PANCREAS.
ACTION OF CYCLIC AMP, GLUCAGON AND
GLIBENCLAMIDE. Osorio J, Campillo JE, de
los Arcos JG, Pages I, Rodriguez E, Marasco M,
Melani F *Rev Esp Fisiol* 32: 211-6, Sep 76 (Eng)
DL/77FEB372

Pagliara AS

CONTROL OF GLUCAGON SECRETION BY
NUTRIENTS IN VITRO. Matschinsky FM,
Pagliara AS *Metabolism* 25: 1435-6, Nov 76
(Eng) DL/77FEB291

REGULATION OF GLUCAGON SECRETION OF
THE DIABETIC PANCREAS IN VITRO
[PROCEEDINGS]. Matschinsky FM, Pagliara

AS *Metabolism* 25: 1517, Nov 76 (Eng)
DL/77FEB313

Palmer JP

DOMINANT INHERITANCE OF LARGE
MOLECULAR WEIGHT SPECIES OF GLU-
CAGON. Ensinn JW, Palmer JP *Metabolism* 25:
1409-11, Nov 76 (Eng) DL/77FEB285

IMMUNOREACTIVE GLUCAGON RESPONSES
TO ARGININE IN THREE PANCREATEC-
TOMIZED HUMANS. Palmer JP, Werner PL,
Benson JW, Ensinn JW *Metabolism* 25: 1483-5,
Nov 76 (Eng) DL/77FEB305

ARGININE (diagnostic use); BLOOD SUGAR
(metabolism); DIABETES MELLITUS (blood);
GLUCAGON (blood, immunology); HUMAN;
PANCREATECTOMY (adverse effects);
UNITED STATES GOVERNMENT
SUPPORTED, N.I.H.).

Panerai AE

NEUROENDOCRINE CONTROL OF GROWTH
HORMONE SECRETION: EXPERIMENTAL
AND CLINICAL STUDIES. PP. 236-51. Liuzzi
A, Panerai AE, Chiodini PG, Secchi C, Cocchi
D, Botalla L, Silvestrini F, Muller EE *InO Picile
A, Muller EE, ed. Growth hormone and related
peptides. Amsterdam, Excerpta Medica, 1976. W3
EX89 no.381 1975. (Eng) DL/77FEB185*

Panksepp J

SUPPRESSION OF FOOD INTAKE IN DIABETIC
RATS BY VOLUNTARY CONSUMPTION AND
INTRAHYPOTHALAMIC INJECTION OF
GLUCOSE. Panksepp J, Meeker R *Physiol
Behav* 16: 763-70, Jun 76 (Eng) DL/77FEB366

ALLOXAN DIABETES (urine); ANIMAL;
BLOOD; BODY WEIGHT; DRINKING
BEHAVIOR; ENERGY METABOLISM;
FEEDING BEHAVIOR (drug effects); GLUCOSE
(administration & dosage, pharmacodynamics);
GLYCOSURIA (etiology); HYPOTHALAMUS
(drug effects); HYPOTHALAMUS, MEDIAL
(drug effects); INJECTIONS; MALE; OSMOLAR
CONCENTRATION; RATS; SATIATION;
UNITED STATES GOVERNMENT
SUPPORTED, NON-N.I.H.); URINATION.

Papworth L

A MODEL FOR THERAPEUTIC INTERVEN-
TIONS ON ESTABLISHED CORONARY
ATHEROSCLEROSIS IN A NONHUMAN PR-
IMATE. Malinow MR, McLaughlin O, Papworth
L, Naito HK, Lewis L, McNulty WP *Adv Exp
Med Biol* 67: 3-31, 1976 (Eng) *DL/77FEB694

Park CR

POSSIBLE ROLE OF PYRUVATE KINASE IN
THE HORMONAL CONTROL OF
DIHYDROXYACETONE GLUCONEOGENE-
SIS IN ISOLATED HEPATOCYTES. Pilgis SJ,
Claus TH, Riou JP, Park CR *Metabolism* 25:
1355-60, Nov 76 (Eng) DL/77FEB273

Parke DV

EFFECT OF DIETARY SUBSTITUTION OF
SUCROSE AND ITS CONSTITUENT
MONOSACCHARIDES ON THE ACTIVITY
OF AROMATIC HYDROXYLASE AND THE
LEVEL OF CYTOCHROME P-450 IN
HEPATIC MICROSOMES OF GROWING
RATS. Basu TK, Dickerson JW, Parke DV *Nutr
Metab* 18: 302-9, 1975 (Eng) *DL/77FEB614

Parker RD

A STUDY OF THE EFFECTS OF FASTING TIME
ON THE ONE HOUR GLUCOSE TOLERANCE
TEST. Parker RD *J Chronic Dis* 29: 667-76, Oct
76 (Eng) DL/77FEB165

FASTING; GLUCOSE TOLERANCE TEST;
HUMAN; TIME FACTORS.

Parra A

PROPRANOLOL EFFECT ON PLASMA GLU-
COSE, FREE FATTY ACID, INSULIN, AND

GROWTH HORMONE IN GRAVES DISEASE.
Ortigosa JL, Mendoza F, Argote RM, Garcia G,
Cervantes C, Parra A *Metabolism* 25: 1201-7,
Nov 76 (Eng) DL/77FEB260

Passa P

[ABNORMALITIES IN PRIMARY HEMOSTASIS
DURING DIABETIC MICROANGIOPATHY]
Bensoussan D, Levy-Toledano S, Passa P *Acad
Rev* 5: 2383-6, 30 Oct 76 (Fre) DL/77FEB457

Passamani J

STIMULATION OF DNA SYNTHESIS, CELL
MULTIPLICATION, AND ORNITHINE
DECARBOXYLASE IN 3T3 CELLS BY MUL-
TIPICATION STIMULATING ACTIVITY
(MSA). Nissley SP, Passamani J, Short P *J Cell
Physiol* 89: 393-402, NOV 76 (Eng)
DL/77FEB163

Passonneau JV

REGULATION OF GLYCOGEN METABOLISM
IN ASTROCYTOMA AND NEUROBLASTOMA
CELLS IN CULTURE. Passonneau JV, Crites
SK *J Biol Chem* 241: 2015-22, 10 Apr 76 (Eng)
*DL/77FEB568

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE
(metabolism); ASTROCYTOMA (metabolism);
CELL LINE; CULTURE MEDIA; GLUCOSE
(metabolism); GLYCOGEN PHOSPHORYLASE
(metabolism); GLYCOGEN SYNTHETASE
(metabolism); GLYCOGEN (metabolism);
NEOPLASMS, EXPERIMENTAL (metabolism);
NEUROBLASTOMA (metabolism);
NOREPINEPHRINE (pharmacodynamics);
PROSTAGLANDINS E (pharmacodynamics);
TIME FACTORS; XANTHINES
(pharmacodynamics).

Patel JR

A RADIOGRAPHIC STUDY OF NUTRIENT
CANALS. Patel JR, Wuehrmann AH *Oral Surg*
42: 693-701, Nov 76 (Eng) DL/77FEB332

ADULT; AGED; ALVEOLAR PROCESS
(pathology); BONE RESORPTION (pathology);
CAUCASIAN RACE; COMPARATIVE STUDY;
DIABETES MELLITUS (pathology); FEMALE;
HUMAN; HYPERTENSION (pathology); JAW
(anatomy & histology, radiography); MALE;
MIDDLE AGE; NEGROID RACE; SEX
FACTORS; UNITED STATES GOVERNMENT
SUPPORTED, N.I.H.).

Patton G

EFFECTS OF NEUROTENSIN AND SUBSTANCE
P ON INSULIN AND GLUCAGON RELEASE
BY THE PERFUSED DOG PANCREAS
[PROCEEDINGS]. Patton G, Brown M, Dobbs
R, Vale W, Unger RH *Metabolism* 25: 1465, Nov
76 (Eng) DL/77FEB300

ANIMAL; DOGS; GLUCAGON (secretion);
INSULIN (secretion); ISLANDS OF
LANGERHANS (drug effects, secretion);
PEPTIDES (pharmacodynamics); SUBSTANCE P
(pharmacodynamics); UNITED STATES
GOVERNMENT SUPPORTED, N.I.H.);
UNITED STATES GOVERNMENT
SUPPORTED, NON-N.I.H.).

Patton GS

GASTRIC GLUCAGON SECRETION. Blazquez
E, Munoz-Barragan L, Patton GS, Dobbs R,
Unger RH *Metabolism* 25: 1475-6, Nov 76 (Eng)
DL/77FEB303

STIMULATION OF PANCREATIC IMMU-
NOREACTIVE SOMATOSTATIN (IRS)
RELEASE BY GLUCAGON [PROCEEDINGS].
Patton GS, Dobbs R, Orci L, Vale W, Unger RH
Metabolism 25: 1499, Nov 76 (Eng)
DL/77FEB308

ANIMAL; DOGS; GLUCAGON
(pharmacodynamics); INSULIN
(pharmacodynamics); ISLANDS OF
LANGERHANS (drug effects, secretion);
SOMATOTROPIN RELEASE INHIBITING

Pav J

HORMONE (immunology, secretion); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.)

GASTRIC A-CELL FUNCTION IN NORMAL DOGS. Munoz-Barragan L, Blazquez E, Patton GS, Dobbs RE, Unger RH *Am J Physiol* 231: 1057-61, Oct 76 (Eng) DL/77FEB474

Pav J

INSULIN RESISTANT DIABETES MELLITUS WITHOUT THE PRESENCE OF INSULIN ANTIBODIES. A CASE REPORT. Pav J, Sramkova J, Matys Z *Endokrinologie* 67: 373-6, 1976 (Eng) DL/77FEB71

ACANTHOSIS NIGRICANS; ADULT; CASE REPORT; DIABETES MELLITUS (drug therapy, immunology, metabolism); FEMALE; HUMAN; INSULIN ANTIBODIES (analysis); INSULIN RESISTANCE; STEIN-LEVENTHAL SYNDROME.

Payne WD

SPECIAL PROBLEMS IN DIABETIC RENAL TRANSPLANTATION. Simmons RL, Payne WD, Sutherland DE, Howard RJ, Goetz FC, Barbosa J, Kjellstrand CM, Najarian JS *Urol Clin North Am* 3: 691-9, Oct 76 (Eng) DL/77FEB424

Pector JC

EFFECTS OF SOMATOSTATIN ON PANCREATIC EXOCRINE FUNCTION. INTERACTION WITH SECRETIN. Deschodt-Lanckman M, Robberecht P, Pector JC, Christophe J *Arch Int Physiol Biochim* 83: 960-1, Dec 75 (Eng) *DL/77FEB705

Pedersen O

A STUDY OF INSULIN RECEPTORS IN HUMAN MONONUCLEAR LEUCOCYTES. Pedersen O, Beck-Nielsen H *Acta Endocrinol (Kbh)* 83: 556-64, Nov 76 (Eng) DL/77FEB455

BINDING SITES; HUMAN; INSULIN (blood); LEUKOCYTES (metabolism); METHODS; RECEPTORS, HORMONE; TEMPERATURE; TIME FACTORS.

THE INSULIN RECEPTOR IN NORMAL AND OBESE PERSONS. Beck-Nielsen H, Pedersen O, Bagger JP, Sorensen NS *Acta Endocrinol (Kbh)* 83: 565-75, Nov 76 (Eng) DL/77FEB456

Pedersen PV

EXPERIMENTAL EVALUATION OF THREE SINGLE-PARTICLE DISSOLUTION MODELS. Pedersen PV, Brown KF *J Pharm Sci* 65: 1442-7, OCT 76 (Eng) DL/77FEB208

KINETICS; MODELS, THEORETICAL; PARTICLE SIZE; SOLUBILITY; TEMPERATURE; TOLBUTAMIDE.

Peeters H

THE NONHUMAN PRIMATES AS MODELS FOR STUDYING HUMAN ATHEROSCLEROSIS: STUDIES ON THE CHIMPANZEE, THE BABOON AND THE RHESUS MACACUS. Blaton V, Peeters H *Adv Exp Med Biol* 67: 33-64, 1976 (Eng) *DL/77FEB696

Penner E

[COMPARATIVE QUANTITATIVE RAPID DETERMINATION OF BLOOD SUGAR BY MEANS OF VARIOUS REFLECTOMETER-SYSTEMS] Scherthaner G, Erd W, Sinzinger H, Penner E *Wien Med Wochenschr* 126: 571-4, 1 Oct 76 (Ger) DL/77FEB435

Pequignot E

METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E *Diabete Metab* 1: 77-85, Jun 75 (Eng) DL/77FEB95

Perdue JF

MITOGEN RECEPTORS IN CHICK EMBRYO FIBROBLASTS. KINETICS, SPECIFICITY, UNMASKING, AND SYNTHESIS OF 125I-INSULIN BINDING SITES. Raizada MK, Perdue JF *J Biol Chem* 251: 6445-55, 25 Oct 76 (Eng) DL/77FEB159

Perinovic M

[ORAL THERAPY OF DIABETES MELLITUS BY COMBINATION OF HYPOGLYCEMIC AGENTS] Grujic M, Perinovic M, Rizvanbegovic B *Med Arh* 30: 167-71, May-Jun 76 (Ser) DL/77FEB238

Perlman PS

GENETIC ANALYSIS OF PETITE MUTANTS OF SACCHAROMYCES CEREVISIAE: TRANS-MISSIONAL TYPES. Perlman PS *Genetics* 82: 645-63, Spr 76 (Eng) *DL/77FEB560

DNA, MITOCHONDRIAL; EXTRACHROMOSOMAL INHERITANCE; GENES, SUPPRESSOR; GENOTYPE; MITOCHONDRIA; MUTATION; RECOMBINATION, GENETIC; SACCHAROMYCES CEREVISIAE.

Pesant P

[BLOOD SUGAR AND BLOOD INSULIN AFTER A RAW OR COOKED MEAL IN CONTROL AND DIABETIC SUBJECTS] Havrankova J, Pesant P, Elie R, Matte R *Union Med Can* 105: 1147-51, Aug 76 (Fre) DL/77FEB421

Peterson T

A MICROSURGICAL TECHNIQUE FOR ORTHOTOPIC OVARIAN TRANSPLANTATION IN THE CHINESE HAMSTER. Schmidt FL, Miller RL, Peterson T, Soret MG *Surgery* 80: 595-600, Nov 76 (Eng) DL/77FEB409

Petkov P

ULTRASTRUCTURE OF B-CELLS OF LANGERHANS ISLETS IN RATS AFTER THE ADMINISTRATION OF L-LEUCINE. Galabova R, Petkov P *Endocrinol Exp (Bratisl)* 10: 217-23, 1976 (Eng) DL/77FEB67

Petrie A

DETERIORATION IN GLUCOSE TOLERANCE FOLLOWING PROLONGED DIURETIC TREATMENT FOR HYPERTENSION [PROCEEDINGS]. Lewis PJ, Dollery CT, Kohner EM, Petrie A *Br J Clin Pharmacol* 2: 375p, Aug 75 (Eng) DL/77FEB5

Petrlik JC

DIABETIC PERIPHERAL NEUROPATHY. Petrlik JC *Am J Nurs* 76: 1794-7, Nov 76 (Eng) DL/77FEB468

DIABETIC NEUROPATHIES (diagnosis, nursing, therapy); HUMAN; NURSE PRACTITIONERS; PERIPHERAL NERVE DISEASES (diagnosis, etiology, therapy).

Petrov MN

[ROLE OF THE THROMBOCYTES IN CHANGES IN THE HEMOSTATIC SYSTEM IN DIABETES MELLITUS] Petrov MN, Gavrishcheva NA, Filatova AM, Tsikarishvili NV, Vashkinel VK *Klin Med (Mosk)* 54: 119-22, Jul 76 (Rus) DL/77FEB229

ADOLESCENCE; ADULT; AGED; BLOOD COAGULATION TESTS; BLOOD PLATELETS (physiology); DIABETES MELLITUS (physiopathology); ENGLISH ABSTRACT; FEMALE; HEMOSTASIS; HUMAN; MALE; MIDDLE AGE; PLATELET ADHESIVENESS; PLATELET AGGREGATION.

Peyman GA

ELEVATION OF INTRAOCULAR PRESSURE AFTER PARS PLANA VITRECTOMY. Weinberg RS, Peyman GA, Huamonte FU *Albrecht von Graefes Arch Klin Ophthalmol* 200: 157-61, 30 Aug 76 (Eng) DL/77FEB479

Pfaffenberger CD

GAS CHROMATOGRAPHIC STUDY OF FREE POLYOLS AND ALDOSES IN CATARACTOUS HUMAN LENS TISSUE. Pfaffenberger CD, Szafranek J, Horning EC *J Chromatogr* 126: 535-45, 3 Nov 76 (Eng) DL/77FEB164

CATARACT (metabolism); CHROMATOGRAPHY, GAS; DIABETES MELLITUS (metabolism); GALACTOSE (analysis); GLUCOSE (analysis); HUMAN; INOSITOL (analysis); LENS, CRYSTALLINE (analysis); SUGAR ALCOHOLS (analysis); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); XYLOSE (analysis).

Pfeiffer EF

INSULIN SECRETION AND BIOSYNTHESIS IN SUCROSE FED RATS. Laube H, Schatz H, Nierle C, Fussganger R, Pfeiffer EF *Diabetologia* 12: 441-6, Oct 76 (Eng) DL/77FEB112

HUMAN C-PEPTIDE. PART II: CLINICAL STUDIES. Beischer W, Heinze E, Keller L, Raptis S, Kerner W, Pfeiffer EF *Klin Wochenschr* 54: 717-25, 1 Aug 76 (Eng) DL/77FEB228

Phillips LS

REGULATION OF SOMATOMEDIN GENERATION. PP. 169-77. Daughaday WH, Phillips LS, Herington AC In: Pecile A, Muller EE, ed. *Growth hormone and related peptides, Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB188*

Pianezzi A

[MICROMETHOD FOR THE DETERMINATION OF GLUCOSE WITH GLUCOSE DEHYDROGENASE IN THE AUTOANALYZER (AUTHORS TRANSL.)] Scholer A, Pianezzi A *J Clin Chem Clin Biochem* 14: 189-95, Apr 76 (Ger) *DL/77FEB597

Piatigorsky

DIFFERENTIAL SYNTHESIS OF CRYSTALLIN AND NONCRYSTALLIN POLYPEPTIDES DURING LENS FIBER CELL DIFFERENTIATION IN VITRO. Beebe DC, Piatigorsky Exp Eye Res 22: 237-49, Mar 76 (Eng) *DL/77FEB552

Picon L

POSTMATURITY IN THE RAT: IMPAIRMENT OF INSULIN, GLUCAGON, AND GLYCOCEN STORES. Portha B, Rosselin G, Picon L *Diabetologia* 12: 429-36, Oct 76 (Eng) DL/77FEB110

Pieper GM

UTILIZATION OF ENDOGENOUS LIPIDS AND GLYCOCEN IN THE PERFUSED RAT HEART: EFFECTS OF HYPOXIA AND EPINEPHRINE. Crass MF 3d, Shipp JC, Pieper GM *Recent Adv Stud Cardiac Struct Metab* 7: 219-24, 1975 (Eng) *DL/77FEB661

TRANSMURAL GRADIENTS IN THE ISCHEMIC DOG LEFT VENTRICLE: METABOLISM OF ENDOGENOUS TRIGLYCERIDES AND GLYCOCEN. Crass MF 3d, Holsinger JW Jr, Shipp JC, Eliot RS, Pieper GM *Recent Adv Stud Cardiac Struct Metab* 7: 225-30, 1975 (Eng) *DL/77FEB662

Pierce M

[32P] ORTHOPHOSPHATE EFFLUX FROM PANCREATIC ISLETS: GRADED RESPONSE TO GLUCOSE STIMULATION. Pierce M, Bukowiecki L, Asplund K, Freinkel N *Horm Metab Res* 8: 358-61, Sep 76 (Eng) DL/77FEB142

Pilkis SJ

POSSIBLE ROLE OF PYRUVATE KINASE IN THE HORMONAL CONTROL OF DIHYDROXYACETONE GLUCONEOGENESIS IN ISOLATED HEPATOCYTES. Pilkis SJ, Claus TH, Riou JP, Park CR *Metabolism* 25: 1355-60, Nov 76 (Eng) DL/77FEB273

ALCOHOL, ETHYL (pharmacodynamics); AMINOXYACETIC ACID (pharmacodynamics); ANIMAL; CINNAMATES (pharmacodynamics); DIHYDROXYACETONE (metabolism); GLUCAGON (pharmacodynamics); GLUCONEOGENESIS (drug effects); GLUCOSE (metabolism); HYDRAZINES (pharmacodynamics); INSULIN (pharmacodynamics); LACTATES (metabolism); LIVER (drug effects, metabolism); PYRUVATE KINASE (metabolism); PYRUVATES (metabolism); RATS; STARVATION; TRIOSSES (metabolism); TRYPTOPHAN (pharmacodynamics).

HORMONAL STIMULATION OF DNA SYNTHESIS IN PRIMARY CULTURES OF ADULT RAT HEPATOCYTES. Richman RA, Claus TH, Pilkis SJ, Friedman DL *Proc Natl Acad Sci USA* 73: 3589-93, Oct 76 (Eng) DL/77FEB360

Pilo A

METHYLGUANIDINE AND INSULIN RESPONSE IN PATIENTS ON MAINTENANCE HAEMODIALYSIS [LETTER]. Ferrannini E, Navalesi R, Pilo A, Morelli E *Lancet* 2: 1028-9, 6 Nov 76 (Eng) DL/77FEB252

Pinget M

[PARODONTOPATHY REVEALING INSULIN-DEPENDANT DIABETES (LETTER)] Pinget M, Dornier M, Brocard JM, Comte F, Farge R, Roth JJ *Nouv Presse Med* 5: 1995, 25 Sep 76 (Fre) DL/77FEB340

ACIDOSIS, DIABETIC (diagnosis); CASE REPORT; DIABETES MELLITUS (complications); FEMALE; HUMAN; KETOSIS, DIABETIC (diagnosis); MIDDLE AGE; PERIODONTAL DISEASES (etiology).

Pinson A

ERICIC ACID METABOLISM BY CULTURED BEATING HEART CELLS OF THE POST-NATAL RAT. Pinson A, Padieu P *Recent Adv Stud Cardiac Struct Metab* 7: 29-40, 1975 (Eng) DL/77FEB672

CARBON DIOXIDE (metabolism); CELLS, CULTURED; CHOLESTEROL ESTERS (biosynthesis); ERUCIC ACIDS (metabolism); FATTY ACIDS, NONESTERIFIED (biosynthesis); FATTY ACIDS, UNSATURATED (metabolism); GLYCERIDES (biosynthesis); MYOCARDIUM (metabolism); PALMITIC ACIDS (biosynthesis); PHOSPHOLIPIDS (biosynthesis); SPHINGOMYELINS (biosynthesis); TIME FACTORS.

Pipeleers DG

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabetes Metab* 1: 7-11, Mar 75 (Eng) DL/77FEB90

ADOLESCENCE; ANIMAL; CYCLOHEXIMIDE (pharmacodynamics); GLUCOSE (pharmacodynamics); HUMAN; IN VITRO; INSULIN (biosynthesis, immunology); ISLANDS OF LANGERHANS (drug effects, metabolism, secretion); ISLET CELL TUMOR (metabolism, secretion, ultrastructure); LUCICINE (metabolism); MALE; MOLECULAR WEIGHT; PROINSULIN (biosynthesis); RATS.

Pirart J

[PLACE AND RESPONSIBILITY OF VASCULAR LESIONS IN DIABETIC NEUROPATHIES] Pirart J *Rev Prat* 26: 3149-56, 11 Oct 76 (Fre) [61] DL/77FEB386

ANIMAL; ARTERIOSCLEROSIS OBLITERANS (complications); ARTERIOSCLEROSIS (complications); DIABETIC ANGIOPATHIES (complications); DIABETIC NEPHROPATHIES (complications); DIABETIC NEUROPATHIES (complications, etiology); DIABETIC RETINOPATHY (complications); ENGLISH ABSTRACT; HUMAN; HYPERGLYCEMIA (complications); NEURITIS (etiology); POLYNEURITIS (complications); RATS; REVIEW.

Placheta P

[CONCENTRATION OF PREGNANCY-SPECIFIC-BETA-1-PROTEIN SPI IN AMNIOTIC FLUID IN NORMAL AND PATHOLOGIC PREGNANCIES (AUTHORS TRANSL)] Tatra G, Polak S, Placheta P *Arch Gynaecol* 221: 161-6, 17 Sep 76 (Ger) DL/77FEB494

Plenge P

LITHIUM EFFECTS ON CARBOHYDRATE AND ELECTROLYTE METABOLISM. PP. 319-22. Mellerup ET, Plenge P, Rafaelsen OJ *Int Ban TA, et al., ed. Psychopharmacology, sexual disorders and drug abuse. Amsterdam, North-Holland, 1973. QV 77 P973 1972. (Eng) *DL/77FEB584*

Plouin PF

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteceuvre M, Bunea JJ *Diabetes Metab* 1: 101-11, Jun 75 (Eng) DL/77FEB91

Podolsky S

GROWTH HORMONE RELEASE IN HUNTINGTONS DISEASE. PP. 252-60. Podolsky S, Leopold NA *Intl Pécile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB181*

ADULT; AGED; ARGININE (diagnostic use); BLOOD SUGAR (metabolism); GLUCOSE TOLERANCE TEST; HUMAN; HUNTINGTON CHOREA (blood); KINETICS; LEVODOPA (diagnostic use); MALE; MIDDLE AGE; MONOGRAPH (mortality); PROLACTIN (blood); SOMATOTROPIN (blood); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Page AW

[THE DETERMINATION OF GLUCOSE IN URINE] Page AW *Z Med Labortech* 17: 59-78, 1976 (Ger) DL/77FEB441

ENGLISH ABSTRACT; GLYCOSURIA; HUMAN; METHODS.

Pointer H

[DIAGNOSTIC METHODS IN THE ASSESSMENT OF GASTROINTESTINAL FUNCTION (AUTHORS TRANSL)] Pointer H *Wien Klin Wochenschr* 88: 609-18, 15 Oct 76 (Ger) [48] DL/77FEB433

AMYLASE (metabolism); DIGESTION; ENGLISH ABSTRACT; GASTRIC ACIDITY DETERMINATION; GASTRIC JUICE (metabolism, secretion); GASTRIN (metabolism); GASTROINTESTINAL DISEASES (diagnosis, physiopathology); GASTROINTESTINAL MOTILITY; HISTAMINE (metabolism); HUMAN; INSULIN (metabolism); LIPASE (metabolism); PANCREATIC JUICE (enzymology); PEPTIDE HYDROLASES (metabolism); RADIOIMMUNOASSAY; REVIEW.

Poitau A

[STUDY OF THE FUCOSE-RICH OLIGOSACCHARIDES IN THE URINE OF HEALTHY AND MELITURIC SUBJECTS WITH A, B AND O BLOOD GROUPS] Strecker G, Trentesaux-Chauvet C, Poitau A, Montreuil J *Biochimie* 58: 805-14, 1976 (Fre) DL/77FEB11

Polak S

[CONCENTRATION OF PREGNANCY-SPECIFIC-BETA-1-PROTEIN SPI IN AMNIOTIC FLUID IN NORMAL AND PATHOLOGIC PREGNANCIES (AUTHORS TRANSL)] Tatra G, Polak S, Placheta P *Arch Gynaecol* 221: 161-6, 17 Sep 76 (Ger) DL/77FEB494

Policova Z

LIPOLYSIS AS A FUNCTION OF CELL NUMBERS AND FAT CONTENT; COMPARISON BETWEEN ISOLATED RAT AND DOG ADIPOCYTES. Hotta N, Sirek OV, Sirek A, Policova Z *Pahlavi Med J* 7: 167-79, Apr 76 (Eng) *DL/77FEB618

Pollard HB

REGULATION OF SECRETION FROM THE ADRENAL MEDULLA. EVIDENCE FOR ADENYLATE CYCLASE ACTIVITY IN SECRETORY VESICLE MEMBRANES. Zinder O, Nikoijevic O, Hoffman PG, Pollard HB *J Biol Chem* 241: 2179-81, 10 Apr 76 (Eng) *DL/77FEB569

Poloni M

INSULIN SECRETION IN MIGRAINE: INFLUENCE ON THE BLOOD LEVELS OF TRYPTOPHAN. Poloni M, Nappi G, Bono G, Roggi C, Arpesella M, Virgilio P *Monogr Neural Sci* 3: 67-70, 1976 (Eng) DL/77FEB322

BLOOD SUGAR (metabolism); GLUCOSE TOLERANCE TEST; HEADACHE (blood); HUMAN; INSULIN (blood); MIGRAINE (blood); TOLBUTAMIDE (diagnostic use); TRYPTOPHAN (blood).

Polonovski J

[SUBCELLULAR LOCALIZATION OF RAT ADIPOCYTE LIPOPROTEIN LIPASE] Wolf C, Vanhove A, Breton M, Etienne J, Berezat G, Polonovski J *C R Soc Biol (Paris)* 169: 1145-9, 1975 (Fre) *DL/77FEB528

Pond WG

MATERNAL PROTEIN MALNUTRITION DURING GESTATION ALONE AND ITS EFFECTS ON PLASMA INSULIN LEVELS OF THE PREGNANT PIG, ITS FETUSES AND THE DEVELOPING OFFSPRING. Atinmo T, Baldjao C, Pond WG, Barnes RH *J Nutr* 106: 1647-53, Nov 76 (Eng) DL/77FEB203

PLASMA INSULIN LEVELS IN WEANED PIGS FED PROTEIN OR ENERGY RESTRICTED DIETS. Atinmo T, Baldjao C, Pond WG, Barnes RH *J Nutr* 106: 1654-8, Nov 76 (Eng) DL/77FEB204

Ponz de Leon M

ALTERATION OF DRUG METABOLISM IN GILBERTS SYNDROME. Carulli N, Ponz de Leon M, Mauro E, Manenti F, Ferrari A *Gut* 17: 581-7, Aug 76 (Eng) DL/77FEB132

Popov VA

[STRUCTURAL AND FUNCTIONAL CHANGES IN THE SMALL INTESTINE IN PERITONITIS] Popov VA *Patol Fiziol Eksp Ter* 32-7, Jan-Feb 76 (Rus) *DL/77FEB619

ACID PHOSPHATASE (metabolism); ALKALINE PHOSPHATASE (metabolism); ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT, ACTIVE; DOGS; ENGLISH ABSTRACT; GLUCOSE (metabolism); INTESTINAL MUCOSA (metabolism, pathology); INTESTINE, SMALL (enzymology, pathology); MALE; MUCOPOLYSACCHARIDES (metabolism); PERITONITIS (enzymology, pathology); RATS; SUCRASE (metabolism).

Porter KA

INSULIN, GLUCAGON, AND THE CONTROL OF HEPATIC STRUCTURE, FUNCTION, AND CAPACITY FOR REGENERATION. Starzl TE,

Diabetes Literature—Author Index

Porte, D Jr

Porter KA, Putnam CW *Metabolism* 25: 1429-34, Nov 76 (Eng) DL/77FEB290

Porte, D Jr

NEUROHUMORAL REGULATION OF THE PANCREATIC ISLET A AND B CELLS. Porte, D Jr, Smith PH, Ensink JW *Metabolism* 25: 1453-6, Nov 76 (Eng) [21] DL/77FEB296
CATECHOLAMINES (pharmacodynamics); GLUCAGON (secretion); INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, innervation, secretion); REVIEW; SEROTONIN (pharmacodynamics); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); SYMPATHETIC NERVOUS SYSTEM (physiology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Portha B

POSTMATURITY IN THE RAT: IMPAIRMENT OF INSULIN, GLUCAGON, AND GLYCOGEN STORES. Portha B, Rosselin G, Picon L *Diabetologia* 12: 429-36, Oct 76 (Eng) DL/77FEB110
ANIMAL; ANIMALS, NEWBORN (metabolism); FETUS (metabolism); GESTATIONAL AGE; GLUCAGON (metabolism); GROWTH; HYPOGLYCEMIA; INSULIN (metabolism); LIVER GLYCOGEN (metabolism); MORTALITY; PREGNANCY; PREGNANCY, PROLONGED (drug effects); PROGESTERONE (administration & dosage); RATS.

Postnow JW

INSULIN KINETIC, GLUCOSE TOLERANCE, AND LIPID METABOLISM IN GENETICALLY SPONTANEOUS-HYPERTENSIVE RATS. Baumann R, Moritz V, Godicke W, Postnow JW, Ziegler M *Acta Biol Med Ger* 35: k 33-9, 1976 (Eng) DL/77FEB451

Pou Torello JM

[PHARMACOKINETIC OF GLIPENTIDE (UR-661) BY IV. ADMINISTRATION ON HEALTHY AND DIABETIC VOLUNTEERS (AUTHORS TRANSL)] Rimbau Barreras V, Uriach Marsal J, Pou Torello JM *Arch Pharmacol Toxicol* 2: 115-22, Aug 76 (Spa) DL/77FEB491

Pouget-Abadie JF

[ROLE OF PERHEXILINE MALEATE AND BETA BLOCKING AGENTS IN THE DEVELOPMENT OF SEVERE HYPOGLYCEMIA (LETTER)] Sudre Y, Becq-Giraudon B, Pouget-Abadie JF, Demange J, Boutaud PH *Nouv Presse Med* 5: 1999, 25 Sep 76 (Fre) DL/77FEB341

[DIABETES MELLITUS IN PHEOCHROMOCYTOMA] Sudre Y, Becq-Giraudon B, Pouget-Abadie JF, Boutaud P, Barbier J, Meriel P, Gasquet C, Babin P *Sem Hop Paris* 52: 1893-902, 16 OCT 76 (Fre) DL/77FEB399

Poulsen HL

WATER FILTRATION OF THE FOREARM IN SHORT- AND LONG-TERM DIABETES MELLITUS. Poulsen HL, Nielsen SL *Diabetologia* 12: 437-40, Oct 76 (Eng) DL/77FEB111
BODY WATER (metabolism); CAPILLARY PERMEABILITY; CONNECTIVE TISSUE (blood supply); DIABETIC ANGIOPATHIES (physiology); FOREARM; HUMAN; MUSCLES (blood supply); REGIONAL BLOOD FLOW; TIME FACTORS.

Pourcher P

DIABETIC RETINOPATHY AND PROLACTIN [LETTER]. Harter M, Balazac N, Pourcher P, Koslowski JM, Krebs B, Ramaioli A *Lancet* 2: 961-2, 30 Oct 76 (Eng) DL/77FEB248

Prastowski W

[BLOOD CLOTTING AND FIBRINOLYTIC ACTIVITY AND PLATELET CHANGES IN CHRONIC PERIPHERAL ARTERIAL INSUFFICIENCY] Kaniak J, Kotschy M, Kurzawska M, Włodarczyk J, Prastowski W *Pol Tyg Lek* 31: 1757-60, 11 Oct 76 (Pol) DL/77FEB350

Prewitt RL

OXYGEN UPTAKE AND TISSUE OXYGEN TENSION DURING ADRENERGIC STIMULATION IN CANINE SUBCUTANEOUS ADIPOSE TISSUE. Fredholm BB, Linde B, Prewitt RL, Johnson PC *Acta Physiol Scand* 97: 48-59, Mar 76 (Eng) *DL/77FEB690

Price JB Jr

INSULIN AND GLUCAGON AS MODIFIERS OF DNA SYNTHESIS IN THE REGENERATING RAT LIVER. Price JB Jr *Metabolism* 25: 1427-8, Nov 76 (Eng) DL/77FEB289
ANIMAL; DNA (biosynthesis); GLUCAGON (pharmacodynamics); INSULIN (pharmacodynamics); LIVER REGENERATION (drug effects); LIVER (drug effects, metabolism); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Priest P

HUMAN FAT CELL SIZING--A QUICK, SIMPLE METHOD. Ashwell M, Priest P, Bondoux M, Sowter C, McPherson CK *J Lipid Res* 17: 190-2, Mar 76 (Eng) *DL/77FEB594

Prior RL

INFLUENCE OF DIETARY ENERGY DURING GESTATION ON LAMBING PERFORMANCE, AND GLUCOSE METABOLISM IN FINNCROSS EWES. Prior RL, Christenson RK *J Anim Sci* 43: 1114-24, Nov 76 (Eng) DL/77FEB155
ANIMAL; BLOOD SUGAR (analysis); ENERGY METABOLISM; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; FETUS (metabolism); GLUCOSE (metabolism); INSULIN (blood); LIVER GLYCOGEN (metabolism); LIVER (metabolism); MYOCARDIUM (metabolism); PREGNANCY; PREGNANCY, ANIMAL; PROPIONATES (metabolism); SHEEP (metabolism, physiology).

Pruett ED

ARTERIAL-HEPATIC VEIN GLUCOSE DIFFERENCES IN NORMAL AND DIABETIC MAN AFTER A GLUCOSE INFUSION AT REST AND AFTER EXERCISE. Machlum S, Jervell J, Pruett ED *Scand J Clin Lab Invest* 36: 415-22, Sep 76 (Eng) DL/77FEB391

pruitt BA Jr

IMPAIRED GLUCOSE FLOW IN BURNED PATIENTS WITH GRAM-NEGATIVE SEPSIS. Wilmore DW, Mason AD Jr, pruitt BA Jr *Surg Gynecol Obstet* 143: 720-4, Nov 76 (Eng) DL/77FEB408

Puchkov EO

[LETTER: EFFECT OF TEMPERATURE ON THE STRUCTURAL STATE OF LIPIDS IN MITOCHONDRIAL MEMBRANES] Puchkov EO, Putvinskii AV, Roshchupkin DI, Vladimirov luA *Biofizika* 21: 387-8, Mar-Apr 76 (Rus) *DL/77FEB525
ANIMAL EXPERIMENTS (analysis); ENGLISH ABSTRACT; IN VITRO; LIPIDS; LIPOSOMES; MEMBRANES; MITOCHONDRIA, LIVER; RATS; TEMPERATURE.

Pulkkinen AJ

DIET-INDUCED ALTERATIONS OF HGH SECRETION IN MAN. Merimee TJ, Pulkkinen AJ, Burton CE *J Clin Endocrinol Metab* 62: 931-7, May 76 (Eng) *DL/77FEB578

Putnam CW

INSULIN, GLUCAGON, AND THE CONTROL OF HEPATIC STRUCTURE, FUNCTION, AND CAPACITY FOR REGENERATION. Starzl TE, Porter KA, Putnam CW *Metabolism* 25: 1429-34, Nov 76 (Eng) DL/77FEB290

Putvinskii AV

[LETTER: EFFECT OF TEMPERATURE ON THE STRUCTURAL STATE OF LIPIDS IN MITOCHONDRIAL MEMBRANES] Puchkov EO, Putvinskii AV, Roshchupkin DI, Vladimirov luA *Biofizika* 21: 387-8, Mar-Apr 76 (Rus) *DL/77FEB525

Pyzik Z

[POLYCARDIOGRAPHIC EVALUATION OF LEFT VENTRICULAR CONTRACTION FOLLOWING GLUCAGON ADMINISTRATION TO PATIENTS WITH CHRONIC CIRCULATORY FAILURE] Szczeklik J, Dubiel J, Pyzik Z *Pol Tyg Lek* 31: 1709-12, 4 Oct 76 (Pol) DL/77FEB347

Rabast U

[TRANSPORT OF FREE FATTY ACIDS AND ENERGY METABOLISM DURING HYPO- AND HYPERCALORIC FORMULA DIETS] Schonborn J, Dadrich E, Rabast U, Kasper H *Verh Dtsch Ges Inn Med* 81: 1402-5, 1975 (Ger) *DL/77FEB685

Rabey I

WEIGHT LOSS IN PATIENTS TREATED LONG-TERM WITH LEVODOPA. METABOLIC ASPECTS. Vardi J, Oberman Z, Rabey I, Streifler M, Ayalon D, Herzberg M *J Neurol Sci* 30: 33-40, Nov 76 (Eng) DL/77FEB201

Rabinowitz M

CONTROL OF PROTEIN BALANCE IN HYPERTROPHIED CARDIAC MUSCLE. Zak R, Martin AF, Reddy MK, Rabinowitz M *Circ Res* 38: i145-50, May 76 (Eng) *DL/77FEB537

Rackwitz R

MYOCARDIAL HIGH ENERGY PHOSPHATES IN EXPERIMENTAL THYROTOXICOSIS IN GUINEA PIGS. Jahrmarker H, Rackwitz R, Otter HP *Recent Adv Stud Cardiac Struct Metab* 7: 199-207, 1975 (Eng) *DL/77FEB659

Radloff JF

BETA-HYDROXY FATTY ACID PRODUCTION DURING FATTY ACID OXIDATION BY HEART MITOCHONDRIA. Hull FE, Radloff JF, Sweeley CC *Recent Adv Stud Cardiac Struct Metab* 7: 13-21, 1975 (Eng) *DL/77FEB657

Rafaelsen OJ

LITHIUM EFFECTS ON CARBOHYDRATE AND ELECTROLYTE METABOLISM. PP. 319-22. Møllerup ET, Plenge P, Rafaelsen OJ *Ino Ban TA, et al., ed. Psychopharmacology, sexual disorders and drug abuse. Amsterdam, North-Holland, 1973. QV 77 P973 1972. (Eng) *DL/77FEB584*

Raizada MK

MITOGEN RECEPTORS IN CHICK EMBRYO FIBROBLASTS. KINETICS, SPECIFICITY, UNMASKING, AND SYNTHESIS OF 125I-INSULIN BINDING SITES. Raizada MK, Perdue JF *J Biol Chem* 251: 6445-55, 25 Oct 76 (Eng) DL/77FEB159
BINDING, COMPETITIVE; BIOLOGICAL TRANSPORT; CELL MEMBRANE (metabolism); CELLS, CULTURED; CHICK EMBRYO; CHYMOTRYPSIN (pharmacodynamics); CULTURE MEDIA; DEOXYGLUCOSE (metabolism); DNA REPLICATION (drug effects); FIBROBLASTS (drug effects, metabolism); INSULIN (metabolism, pharmacodynamics); KINETICS; MITOGENS (metabolism); RECEPTORS, INSULIN (drug effects, metabolism); TRYPSIN (pharmacodynamics).

Diabetes Literature—Author Index

Reichman OH

Ramahandridona G

[PROPORTION OF LOW INSULIN RESPONSE TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL.)] Vague P, Ramahandridona G, Vague J *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77FEB87

Ramaoli A

DIABETIC RETINOPATHY AND PROLACTIN [LETTER]. Harter M, Balarac N, Pourcher P, Koslowski JM, Krebs B, Ramaoli A *Lancet* 2: 961-2, 30 Oct 76 (Eng) DL/77FEB248

Ramaswamy K

SYNTHESIS OF SOME BETA-O-GLUCOPYRANOSIDES HAVING A HYDROPHOBIC AGLYCON GROUP TERMINATED WITH A HYDROPHILIC GROUP. Bhattacharya BR, Ramaswamy K, Crane RK *Carbohydr Res* 47: 167-71, Mar 76 (Eng) *DL/77FEB530

Rannels DE

EFFECTS OF ANOXIA AND ISCHEMIA ON PROTEIN SYNTHESIS IN PERFUSED RAT HEARTS. Kao R, Rannels DE, Morgan HE *Circ Res* 38: 1124-30, May 76 (Eng) *DL/77FEB536

Raptis S

HUMAN C-PEPTIDE. PART II: CLINICAL STUDIES. Beischer W, Heinze E, Keller L, Raptis S, Kerner W, Pfeiffer EF *Klin Wochenschr* 54: 717-25, 1 Aug 76 (Eng) DL/77FEB228

[RADIOIMMUNOLOGIC DETERMINATION OF STH, INSULIN, AND C-PEPTIDE. INDICATION, FUNCTIONAL TESTS, INTERPRETATION OF THE FINDINGS] Schroder KE, Raptis S, Beischer W *Med Welt* 27: 1720-5, 10 Sep 76 (Ger) DL/77FEB257

Raskin P

THE EFFECTS OF GLUCAGON ADMINISTRATION TO NONDIABETICS AND DIABETICS. Unger RH, Aydin I, Nakabayashi H, Srikant CB, Raskin P *Metabolism* 25: 1523-6, Nov 76 (Eng) DL/77FEB315

THE EFFECTS OF ACUTE AND CHRONIC INSULIN ADMINISTRATION ON PLASMA IRG LEVELS IN HUMAN DIABETES. Raskin P, Aydin I, Unger RH *Metabolism* 25: 1531-3, Nov 76 (Eng) DL/77FEB317

DIABETES MELLITUS (blood); DIABETES MELLITUS, JUVENILE (blood); GLUCAGON (blood); GLUCOSE (pharmacodynamics); HUMAN; INSULIN (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. .

Rath R

[EFFECTS OF EXCESSIVE CALORIC INTAKE IN MAN] Rath R *Cesk Gastroenterol Vyz* 30: 107-10, Mar 76 (Cze) *DL/77FEB531

ADULT; BODY WEIGHT; DIETARY HABITS; ENERGY METABOLISM; FOOD HABITS; HUMAN; MALE; OBESITY (metabolism); THERMODYNAMICS.

Rauer G

[THE BEHAVIOR OF LIPOPROTEINS, CHOLESTEROL, TRIGLYCERIDES, FREE FATTY ACIDS AND FREE GLYCEROL IN SERUM OF RATS WITH EXPERIMENTAL HYPERTHYROIDISM AND HYPOTHYROIDISM] Hubner G, Renner K, Rauer G *Endokrinologie* 67: 60-6, Mar 67 (Ger) *DL/77FEB548

Ravens KG

METABOLIC CHANGES IN INFARCTED AND NON-INFARCTED MYOCARDIUM DURING THE POSTINFARCTION PERIOD. Gudbjarnason S, Ravens KG, Mathes P *Recent Adv Stud Cardiac Struct Metab* 1: 439-46, 1972 (Eng) *DL/77FEB644

THE ROLE OF LINOLEIC ACID IN HYPOXIA-INDUCED CHANGES OF THE ACTION POTENTIALS AND THE FORCE OF CONTRACTION OF ISOLATED PAPILLARY MUSCLES OF THE GUINEA PIG. Ravens KG, Ravens U *Recent Adv Stud Cardiac Struct Metab* 7: 289-95, 1975 (Eng) *DL/77FEB671

ACTION POTENTIALS; ANIMAL EXPERIMENTS (analysis); ANOXIA (metabolism); GLUCOSE (metabolism); GUINEA PIGS; HEART VENTRICLE (metabolism); HEART VENTRICLE (physiopathology); HEART (drug effects); LINOLEIC ACIDS (metabolism); MYOCARDIAL CONTRACTION; MYOCARDIUM (metabolism); OXYGEN (pharmacodynamics).

Ravens U

THE ROLE OF LINOLEIC ACID IN HYPOXIA-INDUCED CHANGES OF THE ACTION POTENTIALS AND THE FORCE OF CONTRACTION OF ISOLATED PAPILLARY MUSCLES OF THE GUINEA PIG. Ravens KG, Ravens U *Recent Adv Stud Cardiac Struct Metab* 7: 289-95, 1975 (Eng) *DL/77FEB671

Reagan CR

THE BIOLOGY OF GROWTH HORMONE. Kostyo JL, Reagan CR *Pharmacol Ther* [B] 2: 591-604, 1976 (Eng) [110] DL/77FEB362

Reaven GM

TREATMENT OF ASYMPTOMATIC DIABETES MELLITUS. Reaven GM *Compr Ther* 2: 22-8, Nov 76 (Eng) DL/77FEB49

DIABETES MELLITUS (diet therapy, diagnosis, therapy); HUMAN; HYPERGLYCEMIA (prevention & control); LIFE STYLE.

Reddi AS

ELEVATED KIDNEY GLUCOSYLTRANSFERASE ACTIVITY IN GENETIC PRE-DIABETIC MICE. Reddi AS, Oppermann W, Reddy MP, Velasco CA, Camerini-Davalos RA *Experientia* 32: 1237-8, 15 Oct 76 (Eng) DL/77FEB75

AGE FACTORS; ANIMAL; DIABETES MELLITUS (enzymology, familial & genetic); GLUCOSE TOLERANCE TEST; GLUCOSYLTRANSFERASES (metabolism); GUINEA PIGS; KIDNEY (enzymology); PREDIABETIC STATE (enzymology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .

Reddy MK

CONTROL OF PROTEIN BALANCE IN HYPERTROPHIED CARDIAC MUSCLE. Zak R, Martin AF, Reddy MK, Rabinowitz M *Circ Res* 38: 1145-50, May 76 (Eng) *DL/77FEB537

Reddy MP

ELEVATED KIDNEY GLUCOSYLTRANSFERASE ACTIVITY IN GENETIC PRE-DIABETIC MICE. Reddi AS, Oppermann W, Reddy MP, Velasco CA, Camerini-Davalos RA *Experientia* 32: 1237-8, 15 Oct 76 (Eng) DL/77FEB75

Redekopp C

STUDIES WITH THE AUTOTRANSPLANTED OVINE PANCREAS: GLUCAGON AND INSULIN SECRETION. Arcus AC, Ellis MJ, Kirk RD, Beaven DW, Donald RA, Hart DS, Holland GW, Redekopp C *Aust J Biol Sci* 29: 223-36, Jul 76 (Eng) DL/77FEB496

Redman LR

CHEMICAL LUMBAR SYMPATHECTOMY. Hughes-Davies DI, Redman LR *Anaesthesia* 31: 1068-75, Oct 76 (Eng) DL/77FEB483

Reed JD

EFFECTS OF GROWTH HORMONE-RELEASE INHIBITING HORMONE (GH-RIH OR SOMATOSTATIN) ON SECRETORY

PROCESSES IN STOMACH AND PANCREAS. PP. 407-12. Albinus M, Case RM, Reed JD, Shaw B, Smith PA, Gomez-Pan A, Hall R, Besser GM, Schally AV *In0 Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract. Baltimore, Univ Park Press, 1976. W1 102 S859 1975. (Eng) *DL/77FEB586*

Reemtsma K

HYPERINSULINEMIA AND HYPERGLUCAGONEMIA FOLLOWING PANCREATIC ISLET TRANSPLANTATION IN DIABETIC RATS. Weber CJ, Hardy MA, Lerner RL, Felig P, Reemtsma K *Diabetes* 25: 944-8, Oct 76 (Eng) DL/77FEB101

Rees ED

AN EXPERIMENT ELIMINATING THE ROTATING CARRIER MECHANISM FOR THE ACTIVE TRANSPORT OF CA ION IN SARCOPLASMIC RETICULUM MEMBRANES. Dutton A, Rees ED, Singer SJ *Proc Natl Acad Sci USA* 73: 1532-6, May 76 (Eng) *DL/77FEB624

Regan TJ

DIABETES MELLITUS AND LEFT VENTRICULAR FUNCTION. Ahmed SS, Regan TJ *Compr Ther* 2: 51-7, Nov 76 (Eng) DL/77FEB53

MYOCARDIAL ION AND LIPID CHANGES DURING ISCHEMIA AND CATECHOLAMINE INDUCED NECROSIS: RELATION TO REGIONAL BLOOD FLOW. Regan TJ, Markov A, Khan MI, Jesrani M, Oldewurtel JA, Ettinger PO *Recent Adv Stud Cardiac Struct Metab* 1: 656-64, 1972 (Eng) *DL/77FEB649

ANIMAL EXPERIMENTS (analysis); CORONARY CIRCULATION; CORONARY DISEASE (metabolism); DOGS; EPINEPHRINE (pharmacodynamics); FATTY ACIDS, NONESTERIFIED (metabolism); HEART (drug effects); KRYPTON; LIPIDS (metabolism); MALE; MYOCARDIUM (metabolism); NECROSIS; PHOSPHOLIPIDS (metabolism); POTASSIUM (metabolism); SODIUM (metabolism); TRIGLYCERIDES (metabolism).

Rehunen S

PHYSICAL ACTIVITY AND HORMONES. Adlercreutz H, Harkonen M, Kuoppasalmi K, Kosunen K, Naveri H, Rehunen S *Adv Cardiol* 18: 144-57, 1976 (Eng) DL/77FEB461

Reich H

[LEUCINE-SENSITIVE HYPOGLYCAEMIA AND ITS TREATMENT WITH DIAZOXIDE (AUTHORS TRANSL.)] Reich H, Schunke W *Monatsschr Kinderheilkd* 129: 673-6, Sep 76 (Ger) DL/77FEB321

AMINO ACID METABOLISM, INBORN ERRORS (complications); BLOOD SUGAR (metabolism); CASE REPORT; CONVULSIONS (diet therapy, drug therapy, etiology); DIAZOXIDE (therapeutic use); DIETARY PROTEINS; ENGLISH ABSTRACT; FEMALE; HUMAN; HYPERINSULINISM (complications, etiology); HYPOGLYCEMIA (diet therapy, drug therapy, etiology); INFANT; INSULIN (blood); LEUCINE (metabolism, pharmacodynamics); PROGNOSIS.

Reichman OH

COMPLICATIONS OF CEREBRAL REVASCULARIZATION. Reichman OH *Clin Neurosurg* 23: 318-35, 1976 (Eng) DL/77FEB47

ADULT; AGED; CEREBRAL ANEURYSM (complications); CEREBRAL ARTERIES (surgery); CEREBROVASCULAR DISORDERS (mortality, surgery); CONVULSIONS (etiology); DIABETES MELLITUS (complications); FEMALE; HEART DISEASES (complications); HEMATOMA, SUBDURAL (etiology); HUMAN; HYPERLIPIDEMIA (complications); HYPERTENSION (complications); MALE; MIDDLE AGE; NECROSIS; POSTOPERATIVE COMPLICATIONS; PULMONARY EMBOLISM

Diabetes Literature—Author Index

Reid DD

(etiology); SCALP: SKIN DISEASES (etiology); TEMPORAL ARTERIES (surgery).

Reid DD

SMOKING AND OTHER RISK FACTORS FOR CORONARY HEART-DISEASE IN BRITISH CIVIL SERVANTS. Reid DD, Hamilton PJ, McCartney P, Rose G, Jarrett RJ, Keen H *Lancet* 2: 979-84, 6 Nov 76 (Eng) DL/77FEB253

ADULT; COMPARATIVE STUDY; CORONARY DISEASE (etiology, mortality, occurrence); FOLLOW-UP STUDIES; GREAT BRITAIN; HUMAN; HYPERCHOLESTEREMIA (complications); HYPERGLYCEMIA (complications); HYPERTENSION (complications); MALE; MIDDLE AGE; OCCUPATIONS; PROSPECTIVE STUDIES; RISK; SMOKING (complications); TIME FACTORS.

Reilly TJ

STUDIES ON THE NATURE OF PLASMA GROWTH HORMONE. PP. 75-83. Ellis S, Grindland RE, Reilly TJ, Yang SH *Ino Picile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB191*

Reimann EM

MULTIPLE FORMS OF GLYCOGEN SYNTHASE KINASE: ISOLATION OF FORMS WHICH ARE INDEPENDENT OF CYCLIC AMP. Reimann EM, Schlender KK *J Cyclic Nucleotide Res* 2: 39-46, 1976 (Eng) *DL/77FEB582

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); ENZYME ACTIVATION (drug effects); ISOENZYMES (isolation & purification, metabolism); KIDNEY CORTEX (enzymology); PROTEIN KINASE (isolation & purification, metabolism); RABBITS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.]

Reinwein D

EFFECTS OF GROWTH HORMONE RELEASE-INHIBITING HORMONE AND BROMOCRYPTINE (CB 154) IN STATES OF ABNORMAL PITUITARY-ADRENAL FUNCTION. Benker G, Hackenberg K, Hamburger B, Reinwein D *Clin Endocrinol (Oxf)* 5: 187-90, Mar 76 (Eng) *DL/77FEB542

Reis LC

[GLUCOSE TOLERANCE TESTS WITH ORAL GLUCOSE CHALLENGES OF 50 AND 100 GRAMS (AUTHORS TRANSL)] Federico RD, Jablonka S, Mello EH, Reis LC *Rev Bras Pesqui Med Biol* 9: 213-6, Sep 76 (Por) DL/77FEB371

Reitzenstein M

RAT GASTRIC MUCOSAL OXYGEN TENSION, ULCER INDEX, PLASMA GASTRIN AND GLUCAGON FOLLOWING RESTRAINT STRESS. INFLUENCE OF VAGOTOMY, SPLANCHNICOTOMY AND EXOGENOUS SECRETIN. Schwille PO, Schellerer W, Steiner H, Reitzenstein M *Res Exp Med (Berl)* 167: 149-58, 15 May 76 (Eng) DL/77FEB375

Renner K

[THE BEHAVIOR OF LIPOPROTEINS, CHOLESTEROL, TRIGLYCERIDES, FREE FATTY ACIDS AND FREE GLYCEROL IN SERUM OF RATS WITH EXPERIMENTAL HYPERTHYROIDISM AND HYPOTHYROIDISM] Hubner G, Renner K, Rauer G *Endokrinologie* 67: 60-6, Mar 67 (Ger) *DL/77FEB548

Renold AE

PROINSULIN SYNTHESIS IN ISLETS OF LANGERHANS FROM SPINY MICE (ACOMYS CAHIRINUS). COMPARISON WITH RATS AND MICE. Truheart PA, Maldonato A, Kaelin

D, Renold AE, Sharp GW *Diabetologia* 12: 463-70, Oct 76 (Eng) DL/77FEB115

EFFECTS OF STREPTOZOTOCIN IN VITRO ON PROINSULIN BIOSYNTHESIS, INSULIN RELEASE AND ATP CONTENT OF ISOLATED RAT ISLETS OF LANGERHANS. Maldonato A, Truheart PA, Renold AE, Sharp GW *Diabetologia* 12: 471-81, Oct 76 (Eng) DL/77FEB116

Renshaw DC

IMPOTENCE IN DIABETES MELLITUS. Renshaw DC *Compr Ther* 2: 47-50, Nov 76 (Eng) DL/77FEB52

DIABETES MELLITUS (complications); HUMAN; IMPOTENCE (complications, etiology, therapy); MALE.

Riabov GA

[ETRAN (ENFLURANE) ANESTHESIA (LITERATURE SURVEY)] Riabov GA, Semenov VN *Eksp Khir Anesteziol* 86-90, May-Jun 76 (Rus) DL/77FEB66

ANESTHESIA, INHALATION; COMPARATIVE STUDY; DRUG EVALUATION; ENFLURANE (analysis, pharmacodynamics); FEMALE; HALOTHANE (analysis, pharmacodynamics); HEART (drug effects); HEMODYNAMICS (drug effects); HUMAN; HYPERGLYCEMIA (chemically induced); KIDNEY (drug effects); METHOXYFLURANE (analysis, pharmacodynamics); METHYL ETHERS (pharmacodynamics); MUSCLE TONUS (drug effects); PREGNANCY; RESPIRATION (drug effects); UTERUS (drug effects).

Ribes G

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77FEB83

Richardson PD

THE INFLUENCE OF GLUCAGON UPON THE RESPONSES OF THE HEPATIC ARTERIAL VASCULATURE TO VASODILATOR AGENTS [PROCEEDINGS]. Richardson PD, Withington PG *Br J Pharmacol* 57: 473p, Jul 76 (Eng) DL/77FEB17

ANIMAL; DOGS; DRUG INTERACTIONS; GLUCAGON (pharmacodynamics); LIVER CIRCULATION (drug effects); VASODILATOR AGENTS (pharmacodynamics).

Richman RA

HORMONAL STIMULATION OF DNA SYNTHESIS IN PRIMARY CULTURES OF ADULT RAT HEPATOCYTES. Richman RA, Claus TH, Pilks SJ, Friedman DL *Proc Natl Acad Sci USA* 73: 3589-93, Oct 76 (Eng) DL/77FEB360

CELL ADHESION; CELL DIVISION (drug effects); CELLS, CULTURED; DEXAMETHASONE (pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG; DRUG SYNERGISM; DNA (biosynthesis); GLUCAGON (pharmacodynamics); GROWTH SUBSTANCES (pharmacodynamics); INSULIN (pharmacodynamics); LIVER REGENERATION; LIVER; SOMATOTROPIN (pharmacodynamics); TRIIODOTHYRONINE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.]

Ricketts HT

FIBER AND DIABETES [EDITORIAL]. Ricketts HT *JAMA* 236: 2321-2, 15 Nov 76 (Eng) DL/77FEB219

CELLULOSE (therapeutic use); DIABETIC DIET; DIETARY FIBER (therapeutic use); HUMAN.

Riddick FA Jr

HYPOGLYCEMIA: THE UNDISCLOSED. Blonde L, Riddick FA Jr *South Med J* 69: 1261-5, Oct 76 (Eng) DL/77FEB402

Ridolfi RL

ACUTE PYELONEPHRITIS SIMULATING POORLY VASCULARIZED RENAL NEOPLASM. NON-SPECIFICITY OF ANGIOGRAPHIC CRITERIA. Barth KH, Lightman NI, Ridolfi RL, Catalona WJ *J Urol* 116: 650-2, Nov 76 (Eng) DL/77FEB216

Riedl W

[FATTY ACID PATTERN OF LIPID FRACTIONS IN THE BLOOD. II. CONTROL PERSONS] Lohninger A, Weigl K, Riedl W, Heinkelmann W, Tolle W, Schlag G, Landauer B, Blumel G *Med Welt* 27: 923-6, 7 May 76 (Ger) *DL/77FEB609

Rietsch J

COMPARATIVE STUDIES OF LIPASE AND PHOSPHOLIPASE A2 ACTING ON SUBSTRATE MONOLAYERS. Verger R, Rietsch J, Van Dam-Mieras MC, de Haas GH *J Biol Chem* 251: 3128-33, 25 May 76 (Eng) *DL/77FEB574

Rillema JA

EFFECTS OF HORMONES ON PROTEIN AND AMINO ACID METABOLISM IN MAMMARY GLAND EXPLANTS OF MICE. Anderson LD, Rillema JA *Biochem J* 158: 355-9, 15 Aug 76 (Eng) DL/77FEB506

Rimbau Barreras V

[PHARMACOKINETIC OF GLIPENTIDE (UR-661) BY IV. ADMINISTRATION ON HEALTHY AND DIABETIC VOLUNTEERS (AUTHORS TRANSL)] Rimbau Barreras V, Uriach Marsal J, Pou Torcello JM *Arch Pharmacol Toxicol* 2: 115-22, Aug 76 (Spa) DL/77FEB491

BENZAMIDES (administration & dosage, pharmacodynamics); BLOOD SUGAR (analysis); CARBON RADIOISOTOPES; CLINICAL RESEARCH; CYCLOPENTANES (administration & dosage, pharmacodynamics); DIABETES MELLITUS (drug therapy); DRUG EVALUATION; ENGLISH ABSTRACT; HALF-LIFE; HUMAN; INJECTIONS, INTRAVENOUS; KINETICS; PANCREAS (drug effects); SULFONYLUREA COMPOUNDS (administration & dosage, pharmacodynamics).

Rimm AA

PREOPERATIVE RISK FACTORS AND AORTA-CORONARY BYPASS GRAFT PATENCY. Blumlein SL, Anderson AJ, Barboriak JJ, Rimm AA, Walker J, Flemma R *J Thorac Cardiovasc Surg* 72: 778-83, Nov 76 (Eng) DL/77FEB234

Riou JP

POSSIBLE ROLE OF PYRUVATE KINASE IN THE HORMONAL CONTROL OF DIHYDROXYACETONE GLUCONEOGENESIS IN ISOLATED HEPATOCYTES. Pilks SJ, Claus TH, Riou JP, Park CR *Metabolism* 25: 1355-60, Nov 76 (Eng) DL/77FEB273

Rivier C

CONTROL OF ANTERIOR PITUITARY HORMONE SECRETION. HYPOTHALAMIC PEPTIDES AND THEIR INTERACTIONS. PP. 180-95. Grant G, Vale W, Brazeau P, Rivier J, Monahan M, Gilon C, Amoss M, Rivier C, Ling N, Burgus R, Guillemin R *Ino Lederer K, Cooper KE, ed. Recent studies of hypothalamic function. Basel, Karger, 1974. WL 312 165r 1973. (Eng) [39] *DL/77FEB588*

Rivier J

SOMATOSTATIN ANALOGS WITH SELECTED BIOLOGIC ACTIVITIES. Brown M, Rivier J, Vale W *Metabolism* 25: 1501-3, Nov 76 (Eng) DL/77FEB309

CONTROL OF ANTERIOR PITUITARY HORMONE SECRETION. HYPOTHALAMIC PEPTIDES AND THEIR INTERACTIONS. PP. 180-95. Grant G, Vale W, Brazeau P, Rivier J, Monahan M, Gilon C, Amoss M, Rivier C, Ling N, Burgess R, Guillemain R In: Lederis K, Cooper KE, ed. *Recent studies of hypothalamic function*. Basel, Karger, 1974. WL 312 165r 1973. (Eng) [39] *DL/77FEB588

Rizvanbegovic B

JORAL THERAPY OF DIABETES MELLITUS BY COMBINATION OF HYPOGLYCEMIC AGENTS] Grujic M, Perinovic M, Rizvanbegovic B *Med Arh* 30: 167-71, May-Jun 76 (Ser) DL/77FEB238

Robberecht P

EFFECTS OF SOMATOSTATIN ON PANCREATIC EXOCRINE FUNCTION. INTERACTION WITH SECRETIN. Deschodt-Lanckman M, Robberecht P, Pector JC, Christophe J *Arch Int Physiol Biochim* 83: 960-1, Dec 75 (Eng) *DL/77FEB705

Robert L

CHARACTERIZATION OF LIPIDS ASSOCIATED WITH MACROMOLECULES OF THE INTERCELLULAR MATRIX OF HUMAN AORTA. Claire M, Jacotot B, Robert L *Connect Tissue Res* 4: 61-71, 1976 (Eng) *DL/77FEB544

Roberts A

INBRED MICE AND THEIR HYBRIDS AS AN ANIMAL MODEL FOR ATHEROSCLEROSIS RESEARCH. Roberts A, Thompson JS *Adv Exp Med Biol* 67: 313-327, 1976 (Eng) *DL/77FEB695

ANIMAL EXPERIMENTS (analysis); AORTA (pathology); ARTERIOSCLEROSIS (familial & genetic); ATHEROSCLEROSIS (familial & genetic, pathology); CELLULAR INCLUSIONS (ultrastructure); CHOLESTEROL (blood); COMPARATIVE STUDY; DIET; ATHEROGENIC; DISEASE MODELS, ANIMAL; GENES; HYBRIDIZATION; LIPIDS (analysis); MALE; MICE; MICE, INBRED STRAINS (anatomy & histology).

Robinson S

DRUG MODIFICATION OF HYPOTHERMIA INDUCED BY CNS GLUCOPENIA IN THE MOUSE. Mager M, Robinson S, Freinkel N *Biochem J* 157: 559-64, 1 Sep 76 (Eng) DL/77FEB499

Robles-Valdes C

GLUCAGON AND KETOGENESIS. McGarry JD, Robles-Valdes C, Foster DW *Metabolism* 25: 1387-9, Nov 76 (Eng) DL/77FEB280

Rodbell M

EFFECTS OF IODINATION OF TYROSYL RESIDUES ON THE BINDING AND ACTION OF GLUCAGON AT ITS RECEPTOR. Lin MC, Nicosia S, Rodbell M *Biochemistry* 15: 4537-40, 5 Oct 76 (Eng) DL/77FEB9

SEMISYNTHETIC GLUCAGON DERIVATIVES FOR STRUCTURE-FUNCTION STUDIES. Hruby VJ, Wright DE, Lin MC, Rodbell M *Metabolism* 25: 1323-5, Nov 76 (Eng) DL/77FEB266

REGULATION OF HEPATIC ADENYLATE CYCLASE BY GLUCAGON, GTP, Divalent CATIONS, AND ADENOSINE. Rodbell M, Londos C *Metabolism* 25: 1347-9, Nov 76 (Eng) DL/77FEB271

ADENOSINE (pharmacodynamics); ADENYLATE CYCLASE (metabolism); ANIMAL; CATIONS, DIVALENT (pharmacodynamics); CELL MEMBRANE (drug effects, enzymology); GLUCAGON (pharmacodynamics); GUANOSINE TRIPHOSPHATE (pharmacodynamics); LIVER (drug effects, enzymology); RATS.

Rodriguez E

INHIBITION OF THE GLUCOSE INDUCED INSULIN RELEASE BY SOMATOSTATIN IN THE ISOLATED PERFUSED RAT PANCREAS. ACTION OF CYCLIC AMP, GLUCAGON AND GLIBENCLAMIDE. Osorio J, Campillo JE, de los Arcos JG, Pages I, Rodriguez E, Marasco M, Melani F *Rev Esp Fisiol* 32: 211-6, Sep 76 (Eng) DL/77FEB372

Roffwarg HP

NEUROENDOCRINE STUDIES OF DEPRESSIVE ILLNESS. Sachar EJ, Roffwarg HP, Gruen PH, Altman N, Sassin J *Pharmakopsychiatr Neuropsychopharmacol* 9: 11-7, Jan 76 (Eng) DL/77FEB363

Rogers KS

MITOCHONDRIAL FUNCTIONAL CHANGES DURING HEPATIC HYPERPLASIA AND AZO DYE CARCINOGENESIS. Higgins ES, Rogers KS, Marks PA *Chem Biol Interact* 13: 295-305, Jun 76 (Eng) *DL/77FEB532

Roggi C

INSULIN SECRETION IN MIGRAINE: INFLUENCE ON THE BLOOD LEVELS OF TRYPTOPHAN. Poloni M, Nappi G, Bono G, Roggi C, Arpesella M, Virgilio P *Monogr Neural Sci* 3: 67-70, 1976 (Eng) DL/77FEB322

Roigas E

[CLINICAL PROBLEMS OF PREMATURE LABOR. 1. DIAGNOSIS OF THREATENING PREMATURE LABOR AND THE SCREENING PROCEDURE] Bayer H, Isel EP, Agricola H, Roigas E *Zentralbl Gynaekol* 98: 1025-34, 1976 (Ger) DL/77FEB447

Rojczykowa E

[HIGH-PROTEIN BREAD FOR DIABETICS] Rojczykowa E, Szelnerowa T, Banek H, Laweck J *Pol Tyg Lek* 31: 1729-31, 4 Oct 76 (Pol) DL/77FEB348

BREAD (analysis); DIABETIC DIET; DIETARY PROTEINS (analysis); ENGLISH ABSTRACT; HUMAN.

Romanova A

[SCINTIGRAPHY OF THE PANCREAS IN INSULOMA] Romanova A, Zografski A, Kaneti Ia *Vutr Boles* 14: 123-7, 1975 (Bul) *DL/77FEB682

ADOLESCENCE; ADULT; AGED; CASE REPORT; CHILD; ENGLISH ABSTRACT; FEMALE; HUMAN; ISLET CELL TUMOR (diagnosis); MALE; MIDDLE AGE; PANCREAS; RADIOISOTOPE SCANNING; SELENOMETHIONINE (diagnostic use).

Romanova LN

[AMOUNT OF ACETONE AND ETHYL ALCOHOL IN THE BLOOD AND URINE OF PATIENTS WITH DIABETES MELLITUS AND ISCHEMIC HEART DISEASE] Kamysheva EP, Sorochkina RM, Kapatsinskaja LK, Romanova LN, Danilova MI *Sov Med* 147-8, Apr 76 (Rus) DL/77FEB403

Rona G

STUDIES ON THE MECHANISM OF INCREASED MYOCARDIAL RESISTANCE. Rona G, Dusek J *Recent Adv Stud Cardiac Struct Metab* 1: 422-9, 1972 (Eng) *DL/77FEB643

ANIMAL EXPERIMENTS (analysis); CORONARY VESSELS; DISEASE MODELS, ANIMAL; GLYCOGEN (metabolism); HEART VENTRICLE (metabolism); HEART (physiopathology); LIGATION; MICROSCOPY, ELECTRON; MYOCARDIAL INFARCT (metabolism, physiopathology); MYOCARDIUM (metabolism, pathology); POTASSIUM (metabolism); RATS; RNA (metabolism).

Root AW

RENAL WASTAGE OF INSULIN IN CHILDREN WITH DIABETES MELLITUS. Malone JI, Root AW *Diabetes* 25: 989-93, Oct 76 (Eng) DL/77FEB109

Rose G

SMOKING AND OTHER RISK FACTORS FOR CORONARY HEART-DISEASE IN BRITISH CIVIL SERVANTS. Reid DD, Hamilton PJ, McCartney P, Rose G, Jarrett RJ, Keen H *Lancet* 2: 979-84, 6 Nov 76 (Eng) DL/77FEB253

Rose KD

MODIFICATION OF CELLULAR LIPID METABOLISM BY PSYCHOLOGICAL STRESS. Rose KD, Ursick J, Maca R *Recent Adv Stud Cardiac Struct Metab* 1: 729-41, 1972 (Eng) *DL/77FEB653

AGING; ANIMAL EXPERIMENTS (analysis); AORTA (metabolism); CELL DIVISION; CHICK EMBRYO; CHICKENS (blood); CHOLESTEROL, DIETARY; CHROMATOGRAPHY, GAS; CULTURE MEDIA; FATTY ACIDS (metabolism); FIBROBLASTS (metabolism, ultrastructure); LIPIDS (metabolism); MALE; MICE; MITOSIS; STRESS, PSYCHOLOGICAL.

Rosenberger PG

CARBOHYDRATE PREFERENCES OF MAMMALIAN CELLS. Burns RL, Rosenberger PG, Klebe RJ *J Cell Physiol* 88: 307-16, July 76 (Eng) *DL/77FEB576

Rosenthal MB

GENETIC ORIGIN OF DIABETES [LETTER].

Rosenthal MB, Goldfine ID, Siperstein MD *Lancet* 2: 908-9, 23 Oct 76 (Eng) DL/77FEB247
ADOLESCENCE; ADULT; AGE FACTORS; CHILD; DIABETES MELLITUS (etiology, familial & genetic); DISEASES IN TWINS; FOLLOW-UP STUDIES; HUMAN; MIDDLE AGE; TIME FACTORS; TWINS, MONOZYGOTIC.

INHERITANCE OF DIABETES MELLITUS [LETTER]. Rosenthal MB, Goldfine ID, Siperstein MD *N Engl J Med* 295: 1321, 2 Dec 76 (Eng) DL/77FEB324

ADULT; AGE FACTORS; DIABETES MELLITUS (familial & genetic); DISEASES IN TWINS; FOLLOW-UP STUDIES; HUMAN; TWINS, MONOZYGOTIC.

Roshchupkin DI

[LETTER: EFFECT OF TEMPERATURE ON THE STRUCTURAL STATE OF LIPIDS IN MITOCHONDRIAL MEMBRANES] Puchkov EO, Putvinskii AV, Roshchupkin DI, Vladimirov luA *Biofizika* 21: 387-8, Mar-Apr 76 (Rus) *DL/77FEB525

Rosinger A

DIABETES MELLITUS AND OSTEOPOROSIS. Forgacs S, Rosinger A, Vertes L *Endokrinologie* 67: 343-50, 1976 (Eng) DL/77FEB69

Ross G

THE ROLE OF GLUCAGON-INSULIN INTERACTIONS IN CONTROL OF GLUCOSE TURNOVER AND ITS SIGNIFICANCE IN DIABETES. Vranic M, Ross G, Doi K, Lickley L *Metabolism* 25: 1375-80, Nov 76 (Eng) DL/77FEB277

Ross SA

INHIBITION OF ACTIONS OF GLUCAGON IN ADIPOCYTES BY GASTRIC INHIBITORY POLYPEPTIDE. Dupre J, Greenidge N, McDonald TJ, Ross SA, Rubinstein D *Metabolism* 25: 1197-9, Nov 76 (Eng) DL/77FEB259

Rosselin G

POSTMATURITY IN THE RAT: IMPAIRMENT OF INSULIN, GLUCAGON, AND GLYCOGEN

Diabetes Literature—Author Index

Rossi GL

STORES. Portha B, Rosselin G, Picon L. *Diabetologia* 12: 429-36, Oct 76 (Eng) DL/77FEB110

BIOLOGICAL ACTIVITY AND CONFORMATIONAL PROPERTIES OF GLUCAGON AND GLUCAGON ANALOGS. Epand RM, Cote TE, Hoa DH, Rosselin G, Schreier S. *Metabolism* 25: 1317-8, Nov 76 (Eng) DL/77FEB264

Rossi GL

QUANTITATIVE EVALUATION OF SOMATOTROPHIC CELLS (SC) IN THE ADENOHYPOPHYSIS OF NORMAL AND DIABETIC MALE CHINESE HAMSTERS. Deslex P, Rossi GL. *Diabetologia* 12: 489-93, Oct 76 (Eng) DL/77FEB117

Rossi P

INFLUENCE OF POLARIZING INFUSIONS ON ANTIARRHYTHMIC EFFECTS OF BETA-BLOCKERS. Rossi P, Araldi D, Cernigliaro C, D'Auliero M, Carcano G. *Ital Cardiol* 6: 620-7, 1976 (Eng) DL/77FEB126

ACIDOSIS (chemically induced); ADOLESCENCE; ADULT; AGED; ARRHYTHMIA (chemically induced, drug therapy); DRUG COMBINATIONS; DRUG EVALUATION; DRUG THERAPY; COMBINATION; FEMALE; GLUCOSE (administration & dosage, adverse effects, therapeutic use); HUMAN; INFUSIONS; PARENTERAL; INJECTIONS; INTRAVENOUS; INSULIN (administration & dosage, adverse effects, therapeutic use); MALE; MIDDLE AGE; PRACTOLOL (administration & dosage, therapeutic use).

Rossignol B

DISCUSSION PAPER ON CHOLINERGIC REGULATION OF GLYCOGENOLYSIS AND PROTEIN SECRETION IN RAT SALIVARY GLANDS. PP. 295-6. Rossignol B; Herman G, Keryer G, Chambaut-Guerin AM, Ovtchak L, Bussan S, Brown EM, Fedak SA, Woodard CJ, Aurbach GD. *In Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract. Baltimore, Univ Park Press, 1976. WI 102 S859 1975. (Eng) *DL/77FEB585*

A-23187 (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); CARBACHOL (pharmacodynamics); GLYCOGEN (metabolism); MONOGRAPH (mortality); PAROTID GLAND (drug effects); PHOSPHOLIPIDS (metabolism); PROTEINS (secretion); RATS; SALIVARY GLANDS (metabolism, secretion); SUBMANDIBULAR GLAND (drug effects).

Rossler A

CRITERIA FOR DIAGNOSIS OF ALDOSTERONE BIOSYNTHETIC DEFECTS [LETTER]. Rossler A, Ulick S. *N Engl J Med* 295: 1383, 9 Dec 76 (Eng) DL/77FEB325

ADRENAL CORTEX (enzymology); ALDOSTERONE (biosynthesis, blood); DIABETES MELLITUS (complications); HUMAN; RENIN (blood); STEROID HYDROXYLASES (deficiency); 18-HYDROXYCORTICOSTERONE (secretion).

Roth J

CELL SURFACE RECEPTORS FOR INSULIN AND HUMAN GROWTH HORMONE. EFFECT OF MICROTUBULE AND MICROFILAMENT MODIFIERS. Van Obberghen E, De Meyts P, Roth J. *J Biol Chem* 251: 6844-51, 10 Nov 76 (Eng) DL/77FEB161

RADIORECEPTOR ASSAY OF PLASMA NSILAS IN MAN: BASAL AND STIMULATED LEVELS IN NORMAL AND PATHOLOGIC STATES. PP. 127-40. Megyesi K, Kahn CR, Roth J, Gorden P, Neville DM Jr. *In Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB187*

HORMONAL REGULATION OF THE AFFINITY AND CONCENTRATION OF HORMONE RECEPTORS IN TARGET CELLS. DeMeyts P, Kahn CR, Roth J, Bar RS. *Metabolism* 25: 1365-70, Nov 76 (Eng) DL/77FEB275

Roth JJ

[PARODONTOPATHY REVEALING INSULIN-DEPENDANT DIABETES (LETTER)] Pinget M, Dörner M, Brocard JM, Comte F, Farge R, Roth JJ. *Nouv Presse Med* 5: 1995, 25 Sep 76 (Fre) DL/77FEB340

Roth P

[PROTEIN HYDROLYSIS BY IMMOBILIZED ENZYMES] Lasch J, Koelsch R, Roth P, Gabert A, Marquardt I, Hanson H. *Acta Biol Med Ger* 35: 735-43, 1976 (Ger) DL/77FEB452

Rothschild MA

EARLY CHANGES IN ACUTE CARDIAC OVERLOAD: STUDIES ON ADENYL CYCLASE ACTIVITY, CYCLIC 35-AMP, AND MYOSIN SYNTHESIS. Schreiber SS, Klein I, Oratz M, Evans C, Gueyikian I, Rothschild MA. *Recent Adv Stud Cardiac Struct Metab* 1: 44-58, 1972 (Eng) *DL/77FEB645

Rousselle F

[DIABETIC RETINOPATHY] Haut J, Rousselle F. *Rev Prat* 26: 3121-8, 11 Oct 76 (Fre) DL/77FEB384

Rovetto MJ

INHIBITION OF GLYCOLYSIS IN HEARTS DURING ISCHEMIC PERFUSION. Neely JR, Whitmer JT, Rovetto MJ. *Recent Adv Stud Cardiac Struct Metab* 7: 243-8, 1975 (Eng) *DL/77FEB665

Rowe MJ

THE EFFECT OF ANTILIPOLYTIC AGENTS ON CYCLIC AMP, FREE FATTY ACID AND TOTAL CATECHOLAMINE CONCENTRATIONS IN PLASMA. Strange RC, Rowe MJ, Mjos OD, Oliver MF. *Acta Med Scand* 199: 421-4, 1976 (Eng) *DL/77FEB691

Rowohl-Quisthoudt G

INFLUENCE OF ELECTROSTATIC SURFACE POTENTIAL ON MITOCHONDRIAL ADP-PHOSPHORYLATION. Schafer G, Rowohl-Quisthoudt G. *FEBS Lett* 59: 48-51, 1 Nov 75 (Eng) *DL/77FEB556

Roy D

HIGH MOLECULAR WEIGHT PROTEIN FROM HUMAN LENSES. Roy D, Spector A. *Exp Eye Res* 22: 273-9, Mar 76 (Eng) *DL/77FEB554

AGED; CATARACT (metabolism); CENTRIFUGATION (methods); CRYSTALLINS (analysis); HUMAN; LENS, CRYSTALLINE (analysis); MOLECULAR WEIGHT; PEPTIDES (analysis); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Roze C

[PANCREATIC SECRETION IN RATS. A COMPARATIVE STUDY OF BASAL AND STIMULATED SECRETIONS IN ACUTE AND CHRONIC FISTULA CONDITIONS (AUTHORS TRANSL.)]. Chariot J, Roze C, de La Tour J, Souchart M, Vaille C, Debray C. *Pathol Biol (Paris)* 24: 457-61, Sep 76 (Fre) DL/77FEB336

Rubalcava B

PRESENT PARADOXES IN THE ENVIRONMENTAL CONTROL OF HEPATIC PROLIFERATION. Loeffert HL, Koch KS, Rubalcava B. *Cancer Res* 36: 4250-5, Nov 76 (Eng) DL/77FEB38

Rubenstein AH

CLINICAL CORRELATIONS OF SERUM PROINSULIN-LIKE MATERIAL IN ISLET CELL TUMOURS. Alsever RN, Stjernholm MR, Sussman KE, Mako ME, Rubenstein AH. *Diabetologia* 12: 527-30, Oct 76 (Eng) DL/77FEB123

HETEROGENEITY OF PLASMA GLUCAGON IN MAN. Jaspán JB, Kuku SF, Locker JD, Huen A, Emmanouel DS, Katz AI, Rubenstein AH. *Metabolism* 25: 1397-401, Nov 76 (Eng) DL/77FEB282

Rubinstein D

INHIBITION OF ACTIONS OF GLUCAGON IN ADIPOCYTES BY GASTRIC INHIBITORY POLYPEPTIDE. Dupre J, Greenidge N, McDonald TJ, Ross SA, Rubinstein D. *Metabolism* 25: 1197-9, Nov 76 (Eng) DL/77FEB259

Ruckebusch M

INSULIN RESISTANCE AND RELATED ELECTRICAL ACTIVITY OF THE SMALL INTESTINE. Ruckebusch M, Weekes TE. *Experientia* 32: 1163-5, 15 Sep 76 (Eng) DL/77FEB76

ANIMAL; DOGS; EATING; ELECTROMYOGRAPHY; EVOKED POTENTIALS; FEMALE; HYPERINSULINISM (complications, physiopathology); INSULIN RESISTANCE; INSULIN (blood); INTESTINE, SMALL (physiopathology); MALE; MUSCLE, SMOOTH (physiopathology); OBESITY (etiology); RATS; TIME FACTORS.

Rudd BT

LUTEINIZING RELEASE HORMONE TESTS IN IMPOTENT DIABETIC MALES. Wright AD, London DR, Holder G, Williams JW, Rudd BT. *Diabetes* 25: 975-7, Oct 76 (Eng) DL/77FEB106

Ruderman NB

GLUCOSE METABOLISM IN PERFUSED SKELETAL MUSCLE. EFFECTS OF STARVATION, DIABETES, FATTY ACIDS, ACETOACETATE, INSULIN AND EXERCISE ON GLUCOSE UPTAKE AND DISPOSITION. Berger M, Hagg SA, Goodman MN, Ruderman NB. *Biochem J* 158: 191-202, 15 Aug 76 (Eng) DL/77FEB504

Rudnev IuN

[EFFECT OF ADRENALINE, NORADRENALINE, DOPAMINE, DOPA AND PHENYLALANINE ON LIPID PEROXIDATION IN LIVER MITOCHONDRIA MEMBRANES]. Sergeev PV, Seifulla RD, Dunaev VG, Rudnev IuN. *Biull Eksp Biol Med* 80: 25-8, Dec 75 (Rus) *DL/77FEB526

Russell T

INFLUENCE ON ADIPOCYTE PLASMA MEMBRANE BOUND PROTEIN KINASE BY FEEDBACK REGULATOR. Ho R, Russell T, Asakawa T, Snyder RP. *J Cyclic Nucleotide Res* 1: 349-58, 1975 (Eng) *DL/77FEB580

Ruttile S

CANCER MORTALITY AND SACCHARIN CONSUMPTION IN DIABETICS. Armstrong B, Lea AJ, Adelstein AM, Donovan JW, White GC, Ruttile S. *Br J Prev Soc Med* 30: 151-7, Sep 76 (Eng) DL/77FEB19

Rybova R

MUSCULAR AND SEROSAL EFFECTS OF INSULIN ON ION CONTENTS OF THE FROG URINARY BLADDER. Janacek K, Rybova R, Slavikova M. *Physiol Bohemoslov* 25: 385-7, 1976 (Eng) DL/77FEB367

Saari HT

CONFORMATIONAL CHANGES IN CYTOCHROME AA3 AND ATP SYNTHETASE OF THE MITOCHONDRIAL MEMBRANE

AND THEIR ROLE IN MITOCHONDRIAL ENERGY TRANSDUCTION. Wikstrom MK, Saari HT *Mol Cell Biochem* 11: 17-33, 26 Mar 76 (Eng) [70] *DL/77FEB612

Sachar EJ

NEUROENDOCRINE STUDIES OF DEPRESSIVE ILLNESS. Sachar EJ, Roffwarg HP, Gruen PH, Altman N, Sassin J *Pharmacopsychiatr Neuropsychopharmacol* 9: 11-7, Jan 76 (Eng) DL/77FEB363

AGED; ANXIETY; CIRCADIAN RHYTHM; DEPRESSION (blood); EXERTION; FEMALE; HUMAN; HYDROCORTISONE (blood); HYPOGLYCEMIA (chemically induced); INSULIN; LH (blood); MIDDLE AGE; SLEEP; SOMATOTROPIN (blood).

Sack DW

METABOLISM OF NOREPINEPHRINE IN NONINFARCTED HEART MUSCLE AFTER EXPERIMENTAL MYOCARDIAL INFARCTION. Mathes P, Sack DW, Gudbjarnason S *Recent Adv Stud Cardiac Struct Metab* 7: 283-7, 1975 (Eng) *DL/77FEB670

Safer B

COORDINATION OF CITRIC ACID CYCLE ACTIVITY WITH ELECTRON TRANSPORT FLUX. Williamson JR, Ford C, Illingworth J, Safer B *Circ Res* 38: i39-51, May 76 (Eng) *DL/77FEB538

Sagalchik IaS

[GANGRENE OF THE NASAL CONCHAS AND NASAL SEPTUM, RETROBULBAR ABSCESS AND RHINOGENIC SEPSIS IN A PATIENT WITH DIABETES MELLITUS] Sagalchik IaS *Zh Vyssh Nerv Dej* 26: 100-1, Jun-Aug 76 (Rus) DL/77FEB442

ABSCESS (complications); CASE REPORT; DIABETES MELLITUS (complications); FEMALE; GANGRENE (complications, surgery); HUMAN; MIDDLE AGE; NOSE DISEASES (complications, surgery); ORBIT; SEPTICEMIA (complications).

Saggerson ED

SOME ASPECTS OF FATTY ACID OXIDATION IN ISOLATED FAT-CELL MITOCHONDRIA FROM RAT. Harper RD, Saggerson ED *Biochem J* 152: 485-94, Dec 75 (Eng) *DL/77FEB711

Sailer D

[FASTING VALUES OF CARBOHYDRATE- AND LIPID METABOLISM IN HEALTHY SUBJECTS AND IN PATIENTS WITH DIABETES MELLITUS] Berg G, Matzkies F, Sailer D *Fortschr Med* 94: 1541-3, 7 Oct 76 (Ger) DL/77FEB135

Saito A

THE POTENTIATING INFLUENCES OF INSULIN ON PANCREOZYMIN-INDUCED HYPERPOLARIZATION AND AMYLASE RELEASE IN THE PANCREATIC ACINAR CELL. Kanno T, Saito A *J Physiol (Lond)* 261: 505-21, Oct 76 (Eng) DL/77FEB213

Saito K

MORPHOMETRIC METHOD TO ESTIMATE THE PARAMETERS OF DISTRIBUTION FUNCTIONS ASSUMED FOR SPHERICAL BODIES FROM MEASUREMENTS ON A RANDOM SECTION. Suwa N, Takahashi T, Saito K, Sawai T *Tohoku J Exp Med* 118: 101-11, Feb 76 (Eng) DL/77FEB413

Saito T

HUMAN C-PEPTIDE IMMUNOREACTIVITY (CPR) IN BLOOD AND URINE - EVALUATION OF A RADIOIMMUNOASSAY METHOD AND ITS CLINICAL APPLICATIONS. Kuzuya T, Saito T, Yoshida S, Matsuda A *Diabetologia* 12: 511-8, Oct 76 (Eng) DL/77FEB120

Sakagami T

EXCHANGE OF PHOSPHOLIPIDS BETWEEN MITOCHONDRIA AND ROUGH OR SMOOTH MICROSOMES IN VITRO. Taniguchi M, Sakagami T *J Biochem (Tokyo)* 77: 1245-8, Jun 75 (Eng) *DL/77FEB567

Sakurai H

CHANGES IN CARBOHYDRATE METABOLISM AND ENDOCRINE FUNCTION OF REMNANT PANCREAS AFTER MAJOR PANCREATIC RESECTION. Yasugi H, Mizumoto R, Sakurai H, Honjo I *Am J Surg* 132: 577-80, Nov 76 (Eng) DL/77FEB477

Salvioli GP

[PROGNOSIS OF CHILDREN OF MOTHERS WITH DIABETES MELLITUS] Salvioli GP, Dallacasa P, Bottiglioni F, Guerreschi E *Minerva Pediatr* 28: 212-6, 11 Feb 76 (Ita) DL/77FEB320

ADULT; FEMALE; FETAL DEATH; HUMAN; INFANT MORTALITY; INFANT, NEWBORN; INFANT, NEWBORN, DISEASES; PREGNANCY IN DIABETES; PREGNANCY; PROGNOSIS.

Samols E

INTRASILET NEGATIVE INSULIN-GLUCAGON FEEDBACK. Samols E, Harrison J *Metabolism* 25: 1443-7, Nov 76 (Eng) DL/77FEB293

AMINO ACIDS (pharmacodynamics); ANIMAL; DIABETES MELLITUS (physiopathology); DOGS; FEEDBACK; GLUCAGON (immunology, secretion); GLUCOSE (pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, secretion); TOLBUTAMIDE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

REMARKABLE POTENCY OF SOMATOSTATIN AS A GLUCAGON SUPPRESSANT. Samols E, Harrison J *Metabolism* 25: 1495-7, Nov 76 (Eng) DL/77FEB307

ANIMAL; DOGS; DOSE-RESPONSE RELATIONSHIP, DRUG; GLUCAGON (secretion); INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, secretion); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Sargent T

METHYLMALONIC ACIDURIA AND HYPOGLYCEMIA [LETTER]. Garnica A, Desrosiers P, Sargent T *N Engl J Med* 295: 1136-7, 11 Nov 76 (Eng) DL/77FEB323

Sarma JSM

MECHANISM OF INHIBITION OF CHOLESTEROL UPTAKE BY THE ARTERIAL WALL. Bing RJ, Sarma JSM, Fischer R, Ikeda S *Adv Exp Med Biol* 67: 419-435, 1976 (Eng) *DL/77FEB697

Sarnecka-Keller M

THE LEVEL AND COMPOSITION OF SERUMUCOID AND NONDIALYSABLE SERUM SUGAR-PEPTIDE FRACTION COMPARED WITH THE ACTIVITY OF GALACTOSYL TRANSFERASE (EC 2.4.1.38) OF LIVER GOLGI MEMBRANES IN INSULIN-TREATED RATS. Guzdek A, Kordowiak A, Sarnecka-Keller M *Clin Chim Acta* 72: 393-9, 1 Nov 76 (Eng) DL/77FEB43

THE INFLUENCE OF INSULIN ON THE PROPORTION OF NEUTRAL SUGARS IN SERUMUCOID OF DIABETIC PATIENTS. Guzdek A, Ciba T, Sarnecka-Keller M *Clin Chim Acta* 72: 401-4, 1 Nov 76 (Eng) DL/77FEB44

Sasaki H

EFFECTS OF SUBSTANCE-P [PROCEEDINGS]. Sasaki H *Metabolism* 25: 1463, Nov 76 (Eng) DL/77FEB299

ANIMAL; AORTA; BLOOD FLOW VELOCITY; BLOOD PRESSURE (drug effects); DOGS; GASTRIN (blood); GLUCAGON (blood); INSULIN (blood); PORTAL VEIN; SUBSTANCE P (pharmacodynamics).

Sasaki K

THE RELATION OF STRUCTURE TO STORAGE AND RECEPTOR BINDING OF GLUCAGON. Blundell TL, Dockerill S, Sasaki K, Tickle U, Wood SP *Metabolism* 25: 1331-6, Nov 76 (Eng) DL/77FEB268

Sassin J

NEUROENDOCRINE STUDIES OF DEPRESSIVE ILLNESS. Sachar EJ, Roffwarg HP, Gruen PH, Altman N, Sassin J *Pharmacopsychiatr Neuropsychopharmacol* 9: 11-7, Jan 76 (Eng) DL/77FEB363

Sattelmeyer PA

EFFECTS OF NA⁺ DEPLETION, THEOPHYLLINE AND 2,4-DINITROPHENOL ON NEUTRAL AMINO ACID INFLUX AND CYCLIC ADENOSINE 3:5-MONOPHOSPHATE LEVELS IN CHICKEN SMALL INTESTINE. Burrill PH, Sattelmeyer PA, Lerner J *Comp Biochem Physiol [C]* 53: 95-9, 1976 (Eng) *DL/77FEB543

Saunders JH

EXOCRINE PANCREATIC FUNCTION IN JUVENILE-ONSET DIABETES MELLITUS. Frier BM, Saunders JH, Wormsley KG, Bouchier IA *Gut* 17: 685-91, Sep 76 (Eng) DL/77FEB133

Sawai T

MORPHOMETRIC METHOD TO ESTIMATE THE PARAMETERS OF DISTRIBUTION FUNCTIONS ASSUMED FOR SPHERICAL BODIES FROM MEASUREMENTS ON A RANDOM SECTION. Suwa N, Takahashi T, Saito K, Sawai T *Tohoku J Exp Med* 118: 101-11, Feb 76 (Eng) DL/77FEB413

Scarlet JJ

DIABETIC FOOT CARE EDUCATION IN A PODIATRY CLINIC: A PILOT STUDY. Scarlet JJ, Conner JC, Monastersky C *J Am Podiatry Assoc* 66: 798-800, Oct 76 (Eng) DL/77FEB173

DIABETES MELLITUS (complications); FOOT DISEASES (prevention & control); HUMAN; PATIENTS (education); PILOT PROJECTS; PODIATRY.

Scarpello JH

GASTRIC EMPTYING OF SOLID MEALS IN DIABETICS. Scarpello JH, Barber DC, Hague RV, Cullen DR, Sladen GE *Br Med J* 2: 671-3, 18 Sep 76 (Eng) DL/77FEB22

ADULT; AGED; AUTONOMIC NERVOUS SYSTEM (physiopathology); DIABETES MELLITUS (physiopathology); DIABETIC NEUROPATHIES (physiopathology); FEMALE; FOOD; GASTROINTESTINAL MOTILITY; HUMAN; MALE; MIDDLE AGE; RADIONUCLIDE IMAGING; STOMACH (physiopathology); TECHNETIUM (diagnostic use); TIME FACTORS.

THE 14C-GLYCOCOLATE TEST IN DIABETIC DIARRHOEA. Scarpello JH, Hague RV, Cullen DR, Sladen GE *Br Med J* 2: 673-5, 18 Sep 76 (Eng) DL/77FEB23

ANTIBIOTICS (therapeutic use); AUTONOMIC NERVOUS SYSTEM; BILE ACIDS AND SALTS (metabolism); BREATH TESTS; CARBON DIOXIDE (analysis); CARBON RADIOISOTOPES (diagnostic use); CHOLIC ACIDS (diagnostic use); DIABETES MELLITUS (complications, metabolism); DIABETIC NEUROPATHIES (complications); DIARRHOEA

Schade DS

(drug therapy, etiology, metabolism); FEMALE; GLYCOCOLIC ACID (diagnostic use); HUMAN; MALE.

Schade DS

MODULATION OF FATTY ACID METABOLISM BY GLUCAGON IN MAN. IV. EFFECTS OF A PHYSIOLOGIC HORMONE INFUSION IN NORMAL MAN. Schade DS, Eaton RP *Diabetes* 25: 978-83, Oct 76 (Eng) DL/77FEB107

ACETOACETATES (blood); ADULT; BLOOD SUGAR (metabolism); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLUCAGON (blood, pharmacodynamics); HEPARIN (pharmacodynamics); HUMAN; HYDROXYBUTYRATES (blood); INSULIN (blood); KETONE BODIES (blood); MALE; SOMATOTROPIN (blood); TIME FACTORS.

Schafer G

SOME NEW ASPECTS ON THE INTERACTION OF HYPOGLYCEMIA-PRODUCING BIGUANIDES WITH BIOLOGICAL MEMBRANES. Schafer G *Biochem Pharmacol* 25: 2015-24, 15 Sep 76 (Eng) DL/77FEB512

ANIMAL; BIGUANIDES (metabolism, pharmacodynamics); ENERGY METABOLISM (drug effects); GLUCONEOGENESIS (drug effects); GUINEA PIGS; HYPOGLYCEMIA (chemically induced); IN VITRO; KIDNEY CORTEX (ultrastructure); MALE; MEMBRANES (drug effects); MITOCHONDRIA (metabolism); OXIDATIVE PHOSPHORYLATION (drug effects); OXYGEN CONSUMPTION (drug effects); PIGEONS; RATS.

INFLUENCE OF ELECTROSTATIC SURFACE POTENTIAL ON MITOCHONDRIAL ADP-PHOSPHORYLATION. Schafer G, Rowohl-Quinshoudt G *FEBS Lett* 59: 48-51, 1 Nov 75 (Eng) *DL/77FEB556

ADENOSINE DIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS (analysis); BIGUANIDES (pharmacodynamics); CATTLE; MALE; MEMBRANE POTENTIALS (drug effects); MITOCHONDRIA, LIVER (metabolism, physiology); MITOCHONDRIA, MUSCLE (ultrastructure); MYOCARDIUM (ultrastructure); OXIDATIVE PHOSPHORYLATION; PROTONS; RATS.

Schally AV

EFFECTS OF GROWTH HORMONE-RELEASE INHIBITING HORMONE (GH-RIH OR SOMATOSTATIN) ON SECRETORY PROCESSES IN STOMACH AND PANCREAS. PP. 407-12. Albinus M, Case RM, Reed JD, Shaw B, Smith PA, Gomez-Pan A, Hall R, Besser GM, Schally AV *Ino Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract*. Baltimore, Univ Park Press, 1976. WI 102 S859 1975. (Eng) *DL/77FEB586

ENDOCRINE AND EXTRA-ENDOCRINE STUDIES OF HYPOTHALAMIC HORMONES IN MAN. PP. 196-206. Kastin AJ, Schally AV, Ehrensing RH, Barbeau A *Ino Lederer K, Cooper KE, ed. Recent studies of hypothalamic function*. Basel, Karger, 1974. WL 312 165r 1973. (Eng) [44] *DL/77FEB590

Schatz H

INSULIN SECRETION AND BIOSYNTHESIS IN SUCROSE FED RATS. Laube H, Schatz H, Nierle C, Fussganger R, Pfeiffer EF *Diabetologia* 12: 441-6, Oct 76 (Eng) DL/77FEB112

Schauder P

SOMATOSTATIN AND INSULIN RELEASE FROM ISOLATED RAT PANCREATIC ISLETS STIMULATED BY GLUCOSE. Schauder P, McIntosh C, Arends J, Arnold R, Frerichs H, Creutzfeldt W *FEBS Lett* 68: 225-7, 1 Oct 76 (Eng) DL/77FEB79

ANIMAL; ANTIMYCIN A (pharmacodynamics); EPINEPHRINE (pharmacodynamics); GLUCOSE

Diabetes Literature—Author Index

(pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, secretion); MALE; MANNOHEPTULOSE (pharmacodynamics); RATS; ROTENONE (pharmacodynamics); SOMATOTROPIN RELEASE INHIBITING HORMONE (secretion).

Schedl HP

EFFECTS OF DIABETES ON INTESTINAL MAGNESIUM ABSORPTION IN THE RAT. Miller DL, Schedl HP *Am J Physiol* 231: 1039-42, Oct 76 (Eng) DL/77FEB473

Schellerer W

RAT GASTRIC MUCOSAL OXYGEN TENSION, ULCER INDEX, PLASMA GASTRIN AND GLUCAGON FOLLOWING RESTRAINT STRESS. INFLUENCE OF VAGOTOMY, SPLANCHNICOTOMY AND EXOGENOUS SECRETIN. Schiller PO, Schellerer W, Steiner H, Reitzstein M *Res Exp Med (Berl)* 167: 149-58, 15 May 76 (Eng) DL/77FEB375

Scherthner G

[HL-A SYSTEM AND DIABETES MELLITUS] Scherthner G, Ludwig H, Eibl M, Erd W, Pacher M, Mayr WR *Schweiz Med Wochenschr* 106: 514-7, 10 Apr 76 (Ger) DL/77FEB394

ADULT; CHILD; DIABETES MELLITUS, JUVENILE (familial & genetic, immunology); GLUCOSE TOLERANCE TEST; HISTOCOMPATIBILITY ANTIGENS (analysis); HISTOCOMPATIBILITY TESTING; HL-A (analysis); HUMAN.

[COMPARATIVE QUANTITATIVE RAPID DETERMINATION OF BLOOD SUGAR BY MEANS OF VARIOUS REFLECTOMETER-SYSTEMS] Scherthner G, Erd W, Sinzinger H, Penner E *Wien Med Wochenschr* 126: 571-4, 1 Oct 76 (Ger) DL/77FEB435

BLOOD SUGAR (analysis); COMPARATIVE STUDY; DIABETES MELLITUS (blood); HUMAN; HYPERGLYCEMIA (blood); HYPOGLYCEMIA (blood); METHODS; PREDIABETIC STATE (blood); REGRESSION ANALYSIS; TIME FACTORS.

Scheuer J

PATHOGENIC SIGNIFICANCE OF DISPROPORTION BETWEEN MYOCARDIAL OXYGEN SUPPLY AND CONSUMPTION. Scheuer J *Recent Adv Stud Cardiac Struct Metab* 1: 721-8, 1972 (Eng) *DL/77FEB652

ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS (analysis); ANOXIA (metabolism); CYTOPLASM (metabolism); DOGS; GLUCOGEN (metabolism); HEART (drug effects); HUMAN; LACTATES (metabolism); MITOCHONDRIA, MUSCLE (metabolism); MODELS, BIOLOGICAL; MYOCARDIUM (metabolism); OXYGEN CONSUMPTION; OXYGEN (blood); PHOSPHOCREATINE (metabolism); RESERPINE (pharmacodynamics).

Schimada C

HIGH CONCENTRATION OF GABA AND HIGH GLUTAMATE DECARBOXYLASE ACTIVITY IN RAT PANCREATIC ISLETS AND HUMAN INSULINOMA. Okada Y, Taniguchi H, Shimada C *Science* 194: 620-2, 5 Nov 76 (Eng) DL/77FEB398

Schlag G

[FATTY ACID PATTERN OF LIPID FRACTIONS IN THE BLOOD. II. CONTROL PERSONS] Lohninger A, Weigl K, Riedl W, Heinkelmann W, Tolle W, Schlag G, Landauer B, Blumel G *Med Welt* 27: 923-6, 7 May 76 (Ger) *DL/77FEB609

Schlegel D

DIABETIC RETINOPATHY STUDY. PRELIMINARY RESULTS FROM 215 PATIENTS TREATED UNICULARLY WITH PHOTOCOAGULATION. Koerner F, Schlegel

D, Koerner U *Albrecht von Graefes Arch Klin Ophthalmol* 200: 99-111, 30 Aug 76 (Eng) DL/77FEB480

Schlender KK

MULTIPLE FORMS OF GLYCOGEN SYNTHASE KINASE: ISOLATION OF FORMS WHICH ARE INDEPENDENT OF CYCLIC AMP. Reimann EM, Schlender KK *J Cyclic Nucleotide Res* 2: 39-46, 1976 (Eng) *DL/77FEB582

Schmidt FL

A MICROSURGICAL TECHNIQUE FOR ORTHOTOPIC OVARIAN TRANSPLANTATION IN THE CHINESE HAMSTER. Schmidt FL, Miller RL, Peterson T, Soret MG *Surgery* 80: 595-600, Nov 76 (Eng) DL/77FEB409

ANIMAL; DIABETES MELLITUS; FEMALE; HAMSTERS; MICROSURGERY (methods); OVARY (transplantation); TRANSPLANTATION, HOMOLOGOUS.

Schmidtchen U

ISLET TRANSPLANTATION IN EXPERIMENTAL DIABETES OF THE RAT. V. REGRESSION OF GLOMERULAR LESIONS IN DIABETIC RATS AFTER INTRAPORTAL TRANSPLANTATION OF ISOGENIC ISLETS. PRELIMINARY RESULTS. Federlin K, Bretzel RG, Schmidtchen U *Horm Metab Res* 8: 404-6, Sep 76 (Eng) DL/77FEB148

Schmidt-Ullrich R

CONCAVALIN A STIMULATION MODIFIES THE LIPID AND PROTEIN STRUCTURE OR RABBIT THYMOCYTE PLASMA MEMBRANES. A LASER RAMAN STUDY. Schmidt-Ullrich R, Verma SP, Wallach DF *Biochim Biophys Acta* 426: 477-88, 19 Mar 76 (Eng) *DL/77FEB519

ANIMAL EXPERIMENTS (analysis); BINDING SITES; CELL MEMBRANE (metabolism, ultrastructure); CONCAVALIN A (pharmacodynamics); ELECTRON SPIN RESONANCE; LASERS; LIPIDS (metabolism); LIPOSOMES; MOLECULAR CONFORMATION; PROTEIN BINDING; PROTEIN CONFORMATION; PROTEINS (metabolism); RABBITS; SCATTERING, RADIATION; SPECTRUM ANALYSIS; THYMUS GLAND (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Schmulling RM

[BEHAVIOR OF KETONE BODIES, BLOOD LIPIDS AND OF VARIOUS LABORATORY-CHEMISTRY PARAMETERS DURING ISO-CALORIC HIGH-CARBOHYDRATE AND HIGH-FAT REDUCING DIETS] Schubert WR, Vogel B, Schmulling RM, Eggstein M *Verh Dtsch Ges Inn Med* 81: 1397-1400, 1975 (Ger) *DL/77FEB684

Schnedl W

[GENETIC COUNSELING IN PREVENTIVE MEDICINE] Schnedl W *Wien Med Wochenschr* 126: 565-8, 1 Oct 76 (Ger) DL/77FEB434

CHROMOSOME ABERRATIONS; DIABETES MELLITUS (familial & genetic); DOWNS SYNDROME (familial & genetic); FEMALE; GENETIC COUNSELING; HUMAN; HYDROCEPHALUS (familial & genetic); PREGNANCY; PRENATAL DIAGNOSIS; PREVENTIVE MEDICINE; PSORIASIS (familial & genetic); TRANSLOCATION (GENETICS) (transplantation).

Schneider V

EFFECTS OF ACUTE INSULIN WITHDRAWAL AND ADMINISTRATION ON PLASMA GLUCAGON RESPONSES TO INTRAVENOUS ARGININE IN INSULIN-DEPENDENT DIABETIC SUBJECTS. Gerich JE, Lorenzi M, Tsalkian E, Bohannon NV, Schneider V, Karam JH,

Diabetes Literature—Author Index

Sergeev PV

Forsham PH *Diabetes* 25: 955-60, Oct 76 (Eng) DL/77FEB103

Scholer A

[MICROMETHOD FOR THE DETERMINATION OF GLUCOSE WITH GLUCOSE DEHYDROGENASE IN THE AUTANALYZER (AUTHORS TRANSL.) Scholer A, Pianezzi A *J Clin Chem Clin Biochem* 14: 189-95, Apr 76 (Ger) *DL/77FEB597
ALCOHOL OXIDOREDUCTASES (diagnostic use); AUTOANALYSIS (methods); COMPARATIVE STUDY; ENGLISH ABSTRACT; GLUCOSE (analysis); HEXOKINASE (diagnostic use); HUMAN; INDICATORS AND REAGENTS; MICROCHEMISTRY; SOLUTIONS.

Schonborn J

[TRANSPORT OF FREE FATTY ACIDS AND ENERGY METABOLISM DURING HYPO- AND HYPERCALCAEMIA FORMULA DIETS] Schonborn J, Dadrich E, Rabast U, Kasper H *Verh Dtsch Ges Inn Med* 81: 1402-5, 1975 (Ger) *DL/77FEB685
BIOLOGICAL TRANSPORT; COMPARATIVE STUDY; DIET, REDUCING; ENERGY METABOLISM; FATTY ACIDS; NONESTERIFIED (metabolism); HUMAN; OBESITY (diet therapy).

Schotz MC

INTRA- AND EXTRACELLULAR FORMS OF LIPOPROTEIN LIPASE IN ADIPOSE TISSUE. Nilsson-Ehle P, Garfinkel AS, Schotz MC *Biochim Biophys Acta* 431: 147-56, 22 Apr 76 (Eng) *DL/77FEB522

Schreiber SS

EARLY CHANGES IN ACUTE CARDIAC OVERLOAD: STUDIES ON ADENYL CYCLASE ACTIVITY, CYCLIC 35-AMP, AND MYOSIN SYNTHESIS Schreiber SS, Klein I, Oratz M, Evans C, Gueyikian I, Rothschild MA *Recent Adv Stud Cardiac Struct Metab* 1: 44-58, 1972 (Eng) *DL/77FEB645
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (biosynthesis); ADENYL CYCLASE (metabolism); ANIMAL EXPERIMENTS (analysis); COLLAGEN (biosynthesis); DISEASE MODELS, ANIMAL; GUINEA PIGS; HEART VENTRICLE (metabolism); LYSINE (metabolism); MYOCARDIAL CONTRACTION; MYOCARDIAL INFARCT (metabolism); MYOCARDIUM (enzymology, metabolism); MYOGLOBIN (biosynthesis); MYOSIN (biosynthesis); PROLINE (metabolism).

Schreier S

BIOLOGIC ACTIVITY AND CONFORMATIONAL PROPERTIES OF GLUCAGON AND GLUCAGON ANALOGS. Epan RM, Cote TE, Hoa DH, Rosselin G, Schreier S *Metabolism* 25: 1317-8, Nov 76 (Eng) DL/77FEB264

Schremmer WP

ON THE MEASUREMENT OF SPONTANEOUS PLATELET AGGREGATION. THE PLATELET AGGREGATION TEST III. METHODS AND FIRST CLINICAL RESULTS. Breddin K, Grun H, Krzywanek HJ, Schremmer WP *Thromb Haemostas* 35: 669-91, 30 Jun 76 (Eng) DL/77FEB412

Schroder KE

[RADIOIMMUNOLOGIC DETERMINATION OF STH, INSULIN, AND C-PEPTIDE. INDICATION, FUNCTIONAL TESTS, INTERPRETATION OF THE FINDINGS] Schroder KE, Rapis S, Beischer W *Med Welt* 27: 1720-5, 10 Sep 76 (Ger) DL/77FEB257
HUMAN; INSULIN (blood); PEPTIDES (blood); RADIOIMMUNOASSAY; SOMATOTROPIN (blood).

Schubert WR

[BEHAVIOR OF KETONE BODIES, BLOOD LIPIDS AND OF VARIOUS LABORATORY-CHEMISTRY PARAMETERS DURING ISOCALORIC HIGH-CARBOHYDRATE AND HIGH-FAT REDUCING DIETS] Schubert WR, Vogel B, Schmulling RM, Eggstein M *Verh Dtsch Ges Inn Med* 81: 1397-1400, 1975 (Ger) *DL/77FEB684
DIET, REDUCING; DIETARY CARBOHYDRATES (administration & dosage); DIETARY FATS (administration & dosage); HUMAN; KETO ACIDS (blood); LIPIDS (blood).

Schubotz R

[FATTY ACID PATTERNS AND GLUCOSE TOLERANCE IN HUNTINGTONS CHOREA (AUTHORS TRANSL.) Schubotz R, Hausmann L, Kaffarnik H, Zehner J, Oepen H *Res Exp Med (Berl)* 167: 203-15, 2 Jul 76 (Ger) DL/77FEB376
CHOLESTEROL (blood); ENGLISH ABSTRACT; FATTY ACIDS (blood); GLUCOSE TOLERANCE TEST; HUMAN; HUNTINGTON CHOREA (blood); INSULIN (secretion); LIPIDS (blood); PREDIABETIC STATE (blood); SOMATOTROPIN (secretion).

Schunke W

[LEUCINE-SENSITIVE HYPOGLYCAEMIA AND ITS TREATMENT WITH DIAZOXIDE (AUTHORS TRANSL.) Reich H, Schunke W *Monatsschr Kinderheilk* 129: 673-6, Sep 76 (Ger) DL/77FEB321

Schwartz A

ASSOCIATION OF GLYCOGENOLYSIS WITH CARDIAC SARCOPLASMIC RETICULUM. Entam ML, Kanike K, Goldstein MA, Nelson TE, Bornet EP, Futch TW, Schwartz A *J Biol Chem* 251: 3140-6, 25 May 76 (Eng) *DL/77FEB575

Schwartz E

ACUTE AND CHRONIC ESTROGEN EFFECTS UPON SERUM SOMATOMEDIN ACTIVITY, GROWTH HORMONE, AND PROLACTIN IN MAN. Wiedemann E, Schwartz E, Frantz AG *J Clin Endocrinol Metab* 42: 942-52, May 76 (Eng) *DL/77FEB577

Schwartz R

DISORDERS OF CARBOHYDRATE METABOLISM IN INFANCY. Cornblath M, Schwartz R *Major Probl Clin Pediatr* 3: 1-483, 1976 (Eng) DL/77FEB235

Schwille PO

RAT GASTRIC MUCOSAL OXYGEN TENSION, ULCER INDEX, PLASMA GASTRIN AND GLUCAGON FOLLOWING RESTRAINT STRESS. INFLUENCE OF VAGOTOMY, SPALANCHNOTOMY AND EXOGENOUS SECRETIN. Schwille PO, Schellerer W, Steiner H, Reitzenstein M *Res Exp Med (Berl)* 167: 149-58, 15 May 76 (Eng) DL/77FEB375

ANIMAL; GASTRIC MUCOSA (blood supply); GASTRIN (blood); GLUCAGON (blood); MALE; MICROCIRCULATION (drug effects); OXYGEN (blood); PARTIAL PRESSURE; RATS; SECRETIN (pharmacodynamics); SPALANCHNIC NERVES (physiopathology); STOMACH ULCER (physiopathology); STRESS; VAGOTOMY.

Scott M

TRIACETYLATED INSULIN: BIOLOGIC ACTIVITY AND RESISTANCE TO DEGRADATION. Kaplan SA, Morris JW, Davidson MB, Gerschenson LE, Scott M *Metabolism* 25: 1209-16, Nov 76 (Eng) DL/77FEB261

Sebaoun J

[3 INCIDENTAL OBSERVATIONS OF PACHYDERMO-PERIOSTOSIS] Djian A, Sebaoun J, Beasley N *Rev Rhum Mal Osteoartic* 43: 528-32, Jul-Sep 76 (Fre) DL/77FEB389

Secchi C

NEUROENDOCRINE CONTROL OF GROWTH HORMONE SECRETION: EXPERIMENTAL AND CLINICAL STUDIES. PP. 236-51. Liuzzi A, Panerai AE, Chiodini PG, Secchi C, Cocchi D, Botalla L, Silvestrini F, Muller EE *Ino Pectile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB185*

Seelig MS

MYOCARDIAL LOSS OF FUNCTIONAL MAGNESIUM. I. EFFECT ON MITOCHONDRIAL INTEGRITY AND POTASSIUM RETENTION. Seelig MS *Recent Adv Stud Cardiac Struct Metab* 1: 615-25, 1972 (Eng) *DL/77FEB648
ADENOSINE TRIPHOSPHATASE (metabolism); ANIMAL EXPERIMENTS (analysis); CALCIUM (pharmacodynamics); ENZYME ACTIVATION (drug effects); GUINEA PIGS; HEART DISEASES (metabolism); MAGNESIUM (metabolism); MICROSCOPY, ELECTRON; MITOCHONDRIA, MUSCLE (metabolism, ultrastructure); MITOCHONDRIAL CONTRACTION (drug effects); MITOCHONDRIAL SWELLING (drug effects); MYOCARDIUM (metabolism, ultrastructure); POTASSIUM (metabolism, pharmacodynamics); SODIUM (pharmacodynamics).

Seiffulla RD

[EFFECT OF ADRENALINE, NORADRENALINE, DOPAMINE, DOPA AND PHENYLALANINE ON LIPID PEROXIDATION IN LIVER MITOCHONDRIA MEMBRANES] Sergeev PV, Seiffulla RD, Dunaev VG, Rudnev IuN *Biull Eksp Biol Med* 80: 25-8, Dec 75 (Rus) *DL/77FEB526

Seino Y

IMPAIRED PLASMA INSULIN RESPONSE TO ARGININE IN HYPERTHYROIDISM. IMPORTANT ROLE OF THE RISE OF BLOOD GLUCOSE IN THE SECOND PHASE OF INSULIN RELEASE INDUCED BY ARGININE. Imura H, Seino Y, Ikeda M, Taminato T, Miyamoto Y *Diabetes* 25: 961-8, Oct 76 (Eng) DL/77FEB104

Seki A

[A STUDY OF ROENTGENOLOGIC AORTIC CALCIFICATION, GLUCOSE TOLERANCE, AND INSULIN SECRETORY RESPONSE (AUTHORS TRANSL.) Tanaka T, Seki A, Fujii J, Kuzuya N *J Jpn Soc Intern Med* 65: 569-74, 10 Jun 76 (Jpn) DL/77FEB195

Selam JL

[TREATMENT OF DIABETIC KETO-ACIDOSIS THROUGH CONTINUOUS INSULIN INFUSION] Mirouze J, Mion C, Monnier L, Beraud JJ, Selam JL *Nouv Presse Med* 5: 2444-6, 6 Nov 76 (Fre) DL/77FEB342

Semenov VN

[ETRAN (ENFLURANE) ANESTHESIA (LITERATURE SURVEY)] Riabov GA, Semenov VN *Eksp Khir Anesteziol* 86-90, May-Jun 76 (Rus) DL/77FEB66

Sergeev PV

[EFFECT OF ADRENALINE, NORADRENALINE, DOPAMINE, DOPA AND PHENYLALANINE ON LIPID PEROXIDATION IN LIVER MITOCHONDRIA MEMBRANES] Sergeev PV, Seiffulla RD, Dunaev VG, Rudnev IuN *Biull Eksp Biol Med* 80: 25-8, Dec 75 (Rus) *DL/77FEB526
ANIMAL EXPERIMENTS (analysis); CATECHOLAMINES (pharmacodynamics); DOPA (pharmacodynamics); DOPAMINE (pharmacodynamics); ENGLISH ABSTRACT; EPINEPHRINE (pharmacodynamics); LIPIDS (metabolism); MEMBRANES (drug effects, metabolism); MITOCHONDRIA, LIVER (drug effects, metabolism); NOREPINEPHRINE

Diabetes Literature—Author Index

Sewell JR

(pharmacodynamics); PEROXIDES (metabolism); PHENYLALANINE (pharmacodynamics); RATS.

Sewell JR

WIDESPREAD JUXTA-ARTICULAR BONE NECROSIS IN A TUNNELLER. Sewell JR, Jary C *Proc R Soc Med* 69: 706-7, Sep 76 (Eng) DL/77FEB361

ADRENAL CORTX HORMONES (adverse effects); ADULT; ALCOHOLISM (complications); ATMOSPHERIC PRESSURE; CASE REPORT; DIABETES MELLITUS (complications); HUMAN; JOINT DISEASES (etiology); MALE; OCCUPATIONAL DISEASES; OSTEONECROSIS (etiology).

Shagan BP

DIABETES IN THE ELDERLY PATIENT. Shagan BP *Med Clin North Am* 60: 1191-208, 1976 (Eng) [20] DL/77FEB240

ACETOHEXAMIDE (therapeutic use); AGED; CALORIC INTAKE; CHLORPROPAMIDE (therapeutic use); DIABETES MELLITUS (diagnosis, drug therapy, therapy); DIABETIC DIET; FOOT; HEALTH EDUCATION; HUMAN; HYGIENE; HYPOGLYCEMIC AGENTS (therapeutic use); INSULIN (therapeutic use); PHENFORMIN (therapeutic use); REVIEW; SULFONYLUREA COMPOUNDS (adverse effects, therapeutic use); TOLBUTAMIDE (therapeutic use).

IS DIABETES A MODEL FOR AGING Shagan BP *Med Clin North Am* 60: 1209-11, 1976 (Eng) DL/77FEB241

AGED; AGING; BLOOD SUGAR; COLLAGEN; DIABETES MELLITUS (pathology, physiopathology); DIABETIC ANGIOPATHIES (etiology); HUMAN; MIDDLE AGE; MODELS, BIOLOGICAL.

Shah S

THE SUGAR CONNECTION. REACTIVE HYPOGLYCEMIAS AND IMMUNOREACTIVE INSULIN ASSAY. Shah S *J Kans Med Soc* 77: 494, 516, Nov 76 (Eng) DL/77FEB196

ADULT; AGED; BLOOD SUGAR (analysis); FEMALE; HUMAN; HYPOGLYCEMIA (diagnosis); INSULIN (blood); MALE; MIDDLE AGE.

Sharma AL

EFFECT OF PHENFORMIN AND ETHYLOESTRENOL ON BLOOD FIBRINOLYTIC ACTIVITY ON RABBITS MAINTAINED ON HIGH CHOLESTEROL DIET. Sharma KK, Chowdhury NK, Sharma AL *Indian J Med Res* 64: 915-22, Jun 76 (Eng) DL/77FEB149

Sharma KK

EFFECT OF PHENFORMIN AND ETHYLOESTRENOL ON BLOOD FIBRINOLYTIC ACTIVITY ON RABBITS MAINTAINED ON HIGH CHOLESTEROL DIET. Sharma KK, Chowdhury NK, Sharma AL *Indian J Med Res* 64: 915-22, Jun 76 (Eng) DL/77FEB149

ANIMAL; CHOLESTEROL (blood); CHOLESTEROL, DIETARY; ETHYLESTRENOL (pharmacodynamics); FIBRINOGEN (analysis); FIBRINOLYSIS (drug effects); MALE; PHENFORMIN (pharmacodynamics); RABBITS.

Sharp FR

ACTIVITY-RELATED INCREASES OF GLUCOSE UTILIZATION ASSOCIATED WITH REDUCED INCORPORATION OF GLUCOSE INTO ITS DERIVATIVES. Sharp FR *Brain Res* 107: 663-6, 14 May 76 (Eng) *DL/77FEB527

ANIMAL EXPERIMENTS (analysis); DEOXYGLUCOSE (metabolism); ELECTRIC STIMULATION; GLUCOSE (metabolism); MALE; RATS; SPINAL CORD (metabolism); SPINAL NERVES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Sharp GW

PROINSULIN SYNTHESIS IN ISLETS OF LANGERHANS FROM SPINY MICE (ACOMYS CAHIRINUS). COMPARISON WITH RATS AND MICE. Truchart PA, Maldonado A, Kaelin D, Renold AE, Sharp GW *Diabetologia* 12: 463-70, Oct 76 (Eng) DL/77FEB115

EFFECTS OF STREPTOZOTOCIN IN VITRO ON PROINSULIN BIOSYNTHESIS, INSULIN RELEASE AND ATP CONTENT OF ISOLATED RAT ISLETS OF LANGERHANS. Maldonado A, Truchart PA, Renold AE, Sharp GW *Diabetologia* 12: 471-81, Oct 76 (Eng) DL/77FEB116

Shaw B

EFFECTS OF GROWTH HORMONE--RELEASE INHIBITING HORMONE (GH--RIH OR SOMATOSTATIN) ON SECRETORY PROCESSES IN STOMACH AND PANCREAS. PP. 407-12. Albinus M, Case RM, Reed JD, Shaw B, Smith PA, Gomez-Pan A, Hall R, Besser GM, Schally AV *In: Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract. Baltimore, Univ Park Press, 1976. WI 102 S859 1975. (Eng) *DL/77FEB586*

Shearman DJ

EFFECT OF THE HISTAMINE H2-RECEPTOR ANTAGONIST, CIMETIDINE, ON GASTRIC SECRETION AND SERUM GASTRIN DURING INSULIN INFUSION IN MAN. Carter DC, Forrest JA, Logan RA, Ansell I, Lidgard G, Heading RC, Shearman DJ *Scand J Gastroenterol* 11: 565-70, 1976 (Eng) DL/77FEB393

Sherwin R

EVANESCENT EFFECTS OF HYPO- AND HYPERGLUCAGONEMIA ON BLOOD GLUCOSE HOMEOSTASIS. Sherwin R, Wahren J, Felig P *Metabolism* 25: 1381-3, Nov 76 (Eng) DL/77FEB278

ANIMAL; BLOOD SUGAR (metabolism); DOGS; GLUCAGON (blood); HEPATIC VEINS; HOMEOSTASIS; HUMAN; INSULIN (blood, pharmacodynamics); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Shibata S

A POLYPEPTIDE (AP-A) FROM SEA ANEMONE (ANTHOPELURA XANTHOGRAMMICA) WITH POTENT POSITIVE INOTROPIC ACTION. Shibata S, Norton TR, Izumi T, Matsuo T, Katsuki S *J Pharmacol Exp Ther* 199: 298-309, Nov 76 (Eng) DL/77FEB210

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATASE (metabolism); ANIMAL; BLOOD PRESSURE (drug effects); BRAIN (enzymology); CALCIUM (pharmacodynamics); CATS; COELENTERATA; DOGS; FEMALE; GLUCAGON (pharmacodynamics); GUINEA PIGS; HEART RATE (drug effects); IN VITRO; ISOPROTERENOL (pharmacodynamics); MALE; MEMBRANE POTENTIALS (drug effects); MICE; MUSCLE CONTRACTION (drug effects); MYOCARDIAL CONTRACTION (drug effects); MYOCARDIUM (metabolism); OUBAIN (pharmacodynamics); OXYGEN (pharmacodynamics); PEPTIDES (isolation & purification, pharmacodynamics, toxicity); RABBITS; RATS; SEA ANEMONES; TEMPERATURE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); 3,5-CYCLIC AMP PHOSPHODIESTERASE (metabolism).

Shigenaga K

PANCREATIC ISLET INJURY INDUCED BY METHYL MERCURIC CHLORIDE LIGHT AND ELECTRON MICROSCOPIC STUDIES. Shigenaga K *Kumamoto Med J* 29: 67-81, 30 Jun 76 (Eng) DL/77FEB232

ANIMAL; BODY WEIGHT; ENDOPLASMIC RETICULUM (ultrastructure); ISLANDS OF LANGERHANS (pathology, ultrastructure); MALE; MERCURY POISONING (pathology); RATS.

Shipp JC

METABOLISM OF EXOGENOUS AND ENDOGENOUS FATTY ACIDS IN HEART MUSCLE. Crass MF 3d, Shipp JC *Recent Adv Stud Cardiac Struct Metab* 1: 115-26, 1972 (Eng) *DL/77FEB634

UTILIZATION OF ENDOGENOUS LIPIDS AND GLYCOGEN IN THE PERFUSED RAT HEART: EFFECTS OF HYPOXIA AND EPINEPHRINE. Crass MF 3d, Shipp JC, Pieper GM *Recent Adv Stud Cardiac Struct Metab* 7: 219-24, 1975 (Eng) *DL/77FEB661

TRANSMURAL GRADIENTS IN THE ISCHEMIC DOG LEFT VENTRICLE: METABOLISM OF ENDOGENOUS TRIGLYCERIDES AND GLYCOGEN. Crass MF 3d, Holsinger JW Jr, Shipp JC, Eliot RS, Pieper GM *Recent Adv Stud Cardiac Struct Metab* 7: 225-30, 1975 (Eng) *DL/77FEB662

Shirley R

DIABETIC KETOALKALOSIS [LETTER]. Shirley R, Martin JV *Br Med J* 2: 943, 16 Oct 76 (Eng) DL/77FEB28

AGED; ALKALOSIS (etiology); CASE REPORT; DIABETES MELLITUS (complications, urine); FEMALE; HUMAN; KETONES (urine).

Shiu RP

INTERACTION OF CELL-MEMBRANE PROLACTIN RECEPTOR WITH ITS ANTIBODY. Shiu RP, Friesen HG *Biochem J* 157: 619-26, 1 Sep 76 (Eng) DL/77FEB501

ANIMAL; ANTIBODIES; ANTIGEN-ANTIBODY REACTIONS; BINDING, COMPETITIVE; BREAST NEOPLASMS (immunology); FEMALE; GAMMA GLOBULINS (metabolism); GUINEA PIGS; HUMAN; INSULIN (metabolism); IODINE RADIOISOTOPES; KINETICS; LIVER (immunology); MAMMAE (immunology); MAMMARY NEOPLASMS, EXPERIMENTAL (immunology); MICE; PROLACTIN (metabolism); RABBITS; RATS; RECEPTORS, HORMONE (immunology); SPECIES SPECIFICITY; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Shore B

RABBITS AS A MODEL FOR THE STUDY OF HYPERLIPOPROTEINEMIA AND ATHEROSCLEROSIS. Shore B, Shore V *Adv Exp Med Biol* 67: 123-41, 1976 (Eng) *DL/77FEB693

ADENOSINE TRIPHOSPHATASE (metabolism); ANIMAL EXPERIMENTS (analysis); APOPROTEINS (analysis); ARTERIOSCLEROSIS (blood); ATHEROSCLEROSIS (blood); CELL MEMBRANE (enzymology); CHOLESTEROL, DIETARY (metabolism); COMPARATIVE STUDY; DISEASE MODELS, ANIMAL; ERYTHROCYTES (enzymology); FEMALE; HYPERLIPEMIA (blood); LIPIDS (analysis); LIPOPROTEINS (analysis, blood); LIPOPROTEINS, HDL (analysis); LIPOPROTEINS, HDL (blood); LIPOPROTEINS, VLDL (analysis); RABBITS (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Shore V

RABBITS AS A MODEL FOR THE STUDY OF HYPERLIPOPROTEINEMIA AND ATHEROSCLEROSIS. Shore B, Shore V *Adv Exp Med Biol* 67: 123-41, 1976 (Eng) *DL/77FEB693

Short P

STIMULATION OF DNA SYNTHESIS, CELL MULTIPLICATION, AND ORNITHINE DECARBOXYLASE IN 3T3 CELLS BY MULTIPLICATION STIMULATING ACTIVITY

(MSA). Nissley SP, Passamani J, Short P *J Cell Physiol* 89: 393-402, NOV 76 (Eng) DL/77FEB163

Shrago E

CONTROL OF ENERGY PRODUCTION IN MYOCARDIAL ISCHEMIA. Shrago E, Shug AL, Sul H, Bittar N, Folts JD *Circ Res* 38: i75-9, May 76 (Eng) *DL/77FEB540

ANIMAL EXPERIMENTS (analysis); ARRHYTHMIA (metabolism); CALCIUM (metabolism); COMPARATIVE STUDY; CORONARY DISEASE (metabolism); DOGS; ELECTRON TRANSPORT; ENERGY METABOLISM; FATTY ACIDS (metabolism); GUINEA PIGS; HEART VENTRICLE; MITOCHONDRIA, LIVER (metabolism); MITOCHONDRIA, MUSCLE (metabolism); MYOCARDIUM (metabolism); OXYGEN CONSUMPTION; RATS; SHOCK; CARDIOGENIC (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.)

Shrago ES

INHIBITED ADENINE NUCLEOTIDE TRANSLOCATION IN MITOCHONDRIA ISOLATED FROM ISCHEMIC MYOCARDIUM. Bittar N, Shug AL, Koke JR, Folts JD, Shrago ES *Recent Adv Stud Cardiac Struct Metab* 7: 137-43, 1975 (Eng) *DL/77FEB658

Shuangshoti S

SUBACUTE ENCEPHALOMENINGITIS STRICTLY INVOLVING THE BRAIN STEM AND DIABETES MELLITUS. Shuangshoti S, Viratchai C, Sreesai M *J Med Assoc Thai* 59: 464-9, Oct 76 (Eng) DL/77FEB198

BRAIN STEM; CASE REPORT; DIABETES MELLITUS (complications); ENCEPHALITIS (complications, pathology); FEMALE; HUMAN; MIDDLE AGE.

Shug AL

CONTROL OF ENERGY PRODUCTION IN MYOCARDIAL ISCHEMIA. Shrago E, Shug AL, Sul H, Bittar N, Folts JD *Circ Res* 38: i75-9, May 76 (Eng) *DL/77FEB540

INHIBITED ADENINE NUCLEOTIDE TRANSLOCATION IN MITOCHONDRIA ISOLATED FROM ISCHEMIC MYOCARDIUM. Bittar N, Shug AL, Koke JR, Folts JD, Shrago ES *Recent Adv Stud Cardiac Struct Metab* 7: 137-43, 1975 (Eng) *DL/77FEB658

Siesjo BK

THE EFFECT OF HYPERTHERMIA UPON OXYGEN CONSUMPTION AND UPON ORGANIC PHOSPHATES, GLYCOLYTIC METABOLITES, CITRIC AND CYCLE INTERMEDIATES AND ASSOCIATED AMINO ACIDS IN RAT CEREBRAL CORTICES. Carlsson C, Hagerdal M, Siesjo BK *J Neurochem* 26: 1001-6, May 76 (Eng) *DL/77FEB599

Silver M

ADRENAL AND PANCREATIC ENDOCRINE RESPONSES TO HYPOXIA IN THE CONSCIOUS CALF. Bloom SR, Edwards AV, Hardy RN, Silver M *J Physiol (Lond)* 261: 271-83, Oct 76 (Eng) DL/77FEB212

Silverman M

MECHANISM OF MALEIC ACID-INDUCED GLUCOSURIA IN DOG KIDNEY. Silverman M, Huang L *Am J Physiol* 231: 1024-32, Oct 76 (Eng) DL/77FEB472

ADENOSINE TRIPHOSPHATASE (antagonists & inhibitors); ANIMAL; BIOLOGICAL TRANSPORT; ACTIVE (drug effects); DOGS; GLUCOSE (metabolism); GLYCOSURIA (chemically induced, metabolism); INDICATOR DILUTION TECHNIQUES; KIDNEY CONCENTRATING ABILITY; KIDNEY TUBULES, PROXIMAL (drug effects); KIDNEY TUBULES, PROXIMAL (metabolism); KIDNEY

(drug effects); KIDNEY (metabolism); MALEATES; MANNULOSE (metabolism); MEMBRANES (metabolism).

Silvestrini F

NEUROENDOCRINE CONTROL OF GROWTH HORMONE SECRETION: EXPERIMENTAL AND CLINICAL STUDIES. PP. 236-51. Liuzzi A, Panerai AE, Chiodini PG, Secchi C, Cocchi D, Botalla L, Silvestrini F, Muller EE *In: Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB185*

Simmons RL

SPECIAL PROBLEMS IN DIABETIC RENAL TRANSPLANTATION. Simmons RL, Payne WD, Sutherland DE, Howard RJ, Goetz FC, Barbosa J, Kjellstrand CM, Najarian JS *Urol Clin North Am* 3: 691-9, Oct 76 (Eng) DL/77FEB424

ADULT; CADAVER; CARDIOVASCULAR DISEASES (mortality); DIABETES MELLITUS (drug therapy); DIABETIC NEPHROPATHIES (surgery); DIABETIC NEUROPATHIES (diagnosis); ELECTROMYOGRAPHY; HUMAN; INSULIN (therapeutic use); KIDNEY FAILURE, CHRONIC (surgery); KIDNEY FUNCTION TESTS; KIDNEY (transplantation); MIDDLE AGE; POSTOPERATIVE CARE; POSTOPERATIVE COMPLICATIONS (mortality); RECURRENCE; TRANSPLANTATION, HOMOLOGOUS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); UROLOGIC DISEASES (mortality); VISUAL ACUITY.

Simon B

[ADIPOSE-TISSUE ADENYL CYCLASE] Kather H, Simon B *Med Klin* 71: 739-44, 30 Apr 76 (Ger) [63] *DL/77FEB610

Simpkins H

THE EFFECTS OF HORMONES AND PROTAGLANDINS ON THE CALCIUM POOLS IN CULTURED MYOCARDIAL CELLS. Moura AM, Simpkins H *Mol Cell Endocrinol* 5: 349-57, OCT 76 (Eng) DL/77FEB98

Simpson JC

HYPOGLYCAEMIA IN CHILDREN UNDERGOING OPERATIONS [LETTER]. Simpson JC *Br Med J* 2: 758, 25 Sep 76 (Eng) DL/77FEB25

BLOOD SUGAR; CHILD; CHILD, PRESCHOOL; GLUCOSE SOLUTION, HYPERTONIC; HUMAN; HYPOGLYCEMIA (prevention & control); SURGERY, OPERATIVE.

Singer SJ

AN EXPERIMENT ELIMINATING THE ROTATING CARRIER MECHANISM FOR THE ACTIVE TRANSPORT OF CA ION IN SARCOPLASMIC RETICULUM MEMBRANES. Dutton A, Rees ED, Singer SJ *Proc Natl Acad Sci USA* 73: 1532-6, May 76 (Eng) *DL/77FEB624

Singh KN

CENTRALLY MEDIATED HYPOCHOLESTEROLAEMIC RESPONSE OF INSULIN IN DOGS. Barthwal KC, Singh KN, Bapat V, Bapat SK *Indian J Physiol Pharmacol* 20: 136-40, Jul-Sep 76 (Eng) DL/77FEB150

Sinzinger H

[COMPARATIVE QUANTITATIVE RAPID DETERMINATION OF BLOOD SUGAR BY MEANS OF VARIOUS REFLECTOMETER-SYSTEMS] Scherthner G, Erd W, Sinzinger H, Penner E *Wien Med Wochenschr* 126: 571-4, 1 Oct 76 (Ger) DL/77FEB435

Siperstein MD

GENETIC ORIGIN OF DIABETES [LETTER]. Rosenthal MB, Goldfine ID, Siperstein MD *Lancet* 2: 908-9, 23 Oct 76 (Eng) DL/77FEB247

INHERITANCE OF DIABETES MELLITUS [LETTER]. Rosenthal MB, Goldfine ID, Siperstein MD *N Engl J Med* 295: 1321, 2 Dec 76 (Eng) DL/77FEB324

Sirek A

LIPOLYSIS AS A FUNCTION OF CELL NUMBERS AND FAT CONTENT: COMPARISON BETWEEN ISOLATED RAT AND DOG ADIPOCYTES. Hotta N, Sirek OV, Sirek A, Policova Z *Pahlavi Med J* 7: 167-79, Apr 76 (Eng) *DL/77FEB618

Sirek OV

LIPOLYSIS AS A FUNCTION OF CELL NUMBERS AND FAT CONTENT: COMPARISON BETWEEN ISOLATED RAT AND DOG ADIPOCYTES. Hotta N, Sirek OV, Sirek A, Policova Z *Pahlavi Med J* 7: 167-79, Apr 76 (Eng) *DL/77FEB618

Siska K

INFLUENCE OF ASSISTED CIRCULATION ON CARDIAC METABOLISM. Ziegelhoffer A, Siska K, Holec V, Fedglesova M, Frolo I *Recent Adv Stud Cardiac Struct Metab* 1: 484-91, 1972 (Eng) *DL/77FEB646

Skierska E

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL, TESTOSTERONE AND GROWTH HORMONE LEVELS IN WEIGHT LIFTERS] Skierska E, Ustupka J, Biczowa B, Lukaszewska J *Endokrynol Pol* 27: 159-65, Mar-Apr 76 (Pol) *DL/77FEB550

ADULT; EXERTION; HUMAN; HYDROCORTISONE (blood); MALE; SOMATOTROPIN (blood); SPORT MEDICINE; TESTOSTERONE (blood); WEIGHT LIFTING.

Sladen GE

GASTRIC EMPTYING OF SOLID MEALS IN DIABETICS. Scarpello JH, Barber DC, Hague RV, Cullen DR, Sladen GE *Br Med J* 2: 671-3, 18 Sep 76 (Eng) DL/77FEB22

THE 14C-GLYCOCHOLATE TEST IN DIABETIC DIARRHOEA. Scarpello JH, Hague RV, Cullen DR, Sladen GE *Br Med J* 2: 673-5, 18 Sep 76 (Eng) DL/77FEB23

Slama G

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteceuvre M, Buncaux JJ *Diabete Metab* 1: 101-11, Jun 75 (Eng) DL/77FEB91

[PATHOGENESIS, PHYSIOPATHOLOGY, AND EPIDEMIOLOGY OF DIABETIC MICROANGIOPATHY] Hauteceuvre M, Basdevant A, Slama G, Tchobroutsky G *Rev Prat* 26: 3085-93, 11 Oct 76 (Fre) DL/77FEB381

[SIGNIFICANCE OF BLOOD SUGAR NORMALIZATION IN THE PREVENTION OF VASCULAR COMPLICATIONS IN DIABETES MELLITUS] Tchobroutsky G, Slama G *Rev Prat* 26: 3159-71, 11 Oct 76 (Fre) [17] DL/77FEB387

Slavikova M

MUSCULAR AND SEROSAL EFFECTS OF INSULIN ON ION CONTENTS OF THE FROG URINARY BLADDER. Janacek K, Rybova R, Slavikova M *Physiol Bohemoslov* 25: 385-7, 1976 (Eng) DL/77FEB367

Slochow J

EMOTIONAL LABELING AND OVEREATING IN OBESE AND NORMAL WEIGHT INDIVIDUALS. Slochow J *Psychosom Med* 38: 131-9, Mar-Apr 76 (Eng) *DL/77FEB629

AFFECT; ANXIETY (complications); AROUSAL (physiology); AWARENESS; BODY WEIGHT; COGNITION; COMPARATIVE STUDY; FEEDING BEHAVIOR (physiology); HUMAN;

Slonim AE

HUNGER; MALE; OBESITY (complications); SATIATION; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Slonim AE

EXTRACELLULAR CALCIUM AND ADRENERGIC AND CHOLINERGIC EFFECTS ON ISLET BETA-CELL FUNCTION. Burr IM, Slonim AE, Burke V, Fletcher T *Am J Physiol* 231: 1246-9, Oct 76 (Eng) DL/77FEB476

Smith AW

DIABETIC KETOALKALOSIS [LETTER]. Melrose E, Morgan A, Harrower AD, Smith AW *Br Med J* 237, 24 Jul 76 (Eng) DL/77FEB21

Smith PA

EFFECTS OF GROWTH HORMONE-RELEASE INHIBITING HORMONE (GH-RH OR SOMATOSTATIN) ON SECRETORY PROCESSES IN STOMACH AND PANCREAS. PP. 407-12. Albinus M, Case RM, Reed JD, Shaw B, Smith PA, Gomez-Pan A, Hall R, Besser GM, Schally AV *In: Case RM, Goebell H, ed. Stimulus-secretion coupling in the gastrointestinal tract. Baltimore, Univ Park Press, 1976. WJ 102 5859 1975. (Eng) *DL/77FEB586*

Smith PH

NEUROHUMORAL REGULATION OF THE PANCREATIC ISLET A AND B CELLS. Porte, D Jr, Smith PH, Ensink JW *Metabolism* 25: 1453-6, Nov 76 (Eng) [21] DL/77FEB296

Smith U

HUMAN ADIPOSE TISSUE IN CULTURE. VI. EFFECT OF AGE ON CELL SIZE AND LIPOLYSIS. Nyberg G, Mellgren G, Smith U *Acta Paediatr Scand* 65: 313-8, May 76 (Eng) *DL/77FEB687

Smythe GA

SEROTONINERGIC CONTROL OF HUMAN GROWTH HORMONE SECRETION: THE ACTIONS OF L-DOPA AND 2-BROMO-ALPHA-ERGOCRYPTINE. PP. 222-35. Smythe GA, Compton PJ, Lazarus L, In: Pecile A, Muller EE, ed. *Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. WJ EX89 no.381 1975. (Eng) DL/77FEB189*

ADULT: CYPROHEPTADINE (diagnostic use); ERGOTOXINE (diagnostic use); FASTING; FEMALE; HUMAN; INSULIN (diagnostic use); KINETICS; LEVODOPA (diagnostic use); MALE; MELATONIN (diagnostic use); MIDDLE AGE; MONOGRAPH (mortality); PROLACTIN (blood); SEROTONIN (metabolism); SOMATOTROPIN (blood); STRUCTURE-ACTIVITY RELATIONSHIP; 2-BROMOERGOCRYPTINE (diagnostic use).

Snyder RP

INFLUENCE ON ADIPOCYTE PLASMA MEMBRANE BOUND PROTEIN KINASE BY FEEDBACK REGULATOR. Ho R, Russell T, Asakawa T, Snyder RP *J Cyclic Nucleotide Res* 1: 349-58, 1975 (Eng) *DL/77FEB580

Sobel H

EFFECT OF AGE ON CARDIAC METABOLISM. Sobel H *Recent Adv Stud Cardiac Struct Metab* 1: 101-11, 1972 (Eng) *DL/77FEB633

AGING; ANIMAL EXPERIMENTS (analysis); DOGS; HEART (growth & development); HUMAN; LIPOFUSCIN (metabolism); MEMBRANES (metabolism); MITOCHONDRIA, MUSCLE (metabolism); MYOCARDIUM (metabolism); OXYGEN CONSUMPTION; OXYGEN; PARTIAL PRESSURE; TRANSCRIPTION, GENETIC; TRANSLATION, GENETIC.

Sodi-Pallares D

[CLINICAL UNSPECIFICITY AND METABOLIC SPECIFICITY OF THE POLARIZING SOLU-

TION (AUTHORS TRANSL.)] Sodi-Pallares D *Folia Clin Int (Barc)* 26: 7-13, Jan 76 (Spa) [83] DL/77FEB81

ARRHYTHMIA (drug therapy); GLUCOSE (therapeutic use); GLYCOGEN (metabolism); GLYCOLYSIS (drug effects); HEART (drug effects); HUMAN; INSULIN (therapeutic use); MUSCLES (metabolism); MYOCARDIAL INFARCT (drug therapy, metabolism); MYOCARDIUM (metabolism); PENTOSE (metabolism); POTASSIUM (therapeutic use); REVIEW.

Soeters PB

INSULIN, GLUCAGON, AMINOACID IMBALANCE, AND HEPATIC ENCEPHALOPATHY. Soeters PB, Fischer JE *Lancet* 2: 880-2, 23 Oct 76 (Eng) DL/77FEB245

AMINO ACIDS (blood, metabolism); ANIMAL; BLOOD-BRAIN BARRIER; BRAIN (metabolism); DOGS; GLUCAGON (blood); HEPATIC COMA (etiology, metabolism); HUMAN; INSULIN (blood); LIVER (metabolism); MUSCLES (metabolism); RATS.

Solomon AK

INTERACTION BETWEEN PHLORETIN AND THE RED BLOOD CELL MEMBRANE. Jennings ML, Solomon AK *J Gen Physiol* 67: 381-97, Apr 76 (Eng) *DL/77FEB598

Somers G

INSULIN RELEASE AND THE MOVEMENTS OF CALCIUM IN PANCREATIC ISLETS. PP. 211-26. Malaisse WJ, Herchuelz A, Levy J, Somers G, Devis G *In: Carafoli E, et al, ed. Calcium transport in contraction and secretion. Amsterdam, North-Holland, 1975. QV 276 161c 1975. (Eng) DL/77FEB179*

CALCIUM-ANTAGONISTS AND ISLET FUNCTION. VI. EFFECTS OF BARIUM. Somers G, Devis G, van Obberghen E, Malaisse WJ *Pfluegers Arch* 365: 21-8, 3 Sep 76 (Eng) DL/77FEB339

ANIMAL; BARIUM (metabolism, pharmacodynamics); BIOLOGICAL TRANSPORT, ACTIVE (drug effects); CALCIUM (pharmacodynamics); CYTOCHALASIN B (pharmacodynamics); EGTA (pharmacodynamics); GLUCOSE (pharmacodynamics); IN VITRO; INSULIN (secretion); IPROVERATRIL (pharmacodynamics); ISLANDS OF LANGERHANS (drug effects, metabolism, secretion); RATS; THEOPHYLLINE (pharmacodynamics).

Sonne O

THE EXCRETION OF INSULIN IN URINE. Ellaway RM, Sonne O, Gliemann J, Orskov H, Johansen K *Diabetologia* 12: 523-6, Oct 76 (Eng) DL/77FEB122

Sonnenblick EH

INFLUENCE OF FREE FATTY ACIDS ON MYOCARDIAL MECHANICS AND OXYGEN CONSUMPTION IN RAT PAPILLARY MUSCLES AND PERFUSED HEARTS, UNDER OXYGENATED AND HYPOXIC CONDITIONS. Henderson AH, Sonnenblick EH *Recent Adv Stud Cardiac Struct Metab* 1: 147-62, 1972 (Eng) *DL/77FEB636

Sorensen NS

THE INSULIN RECEPTOR IN NORMAL AND OBESE PERSONS. Beck-Nielsen H, Pedersen O, Bagger JP, Sorensen NS *Acta Endocrinol (Kbh)* 83: 565-75, Nov 76 (Eng) DL/77FEB456

Soret MG

A MICROSURGICAL TECHNIQUE FOR ORTHOTOPIC OVARIAN TRANSPLANTATION IN THE CHINESE HAMSTER. Schmidt FL, Miller RL, Peterson T, Soret MG *Surgery* 80: 595-600, Nov 76 (Eng) DL/77FEB409

Sorrial G

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL.)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorrial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77FEB83

Sorochkina RM

[AMOUNT OF ACETONE AND ETHYL ALCOHOL IN THE BLOOD AND URINE OF PATIENTS WITH DIABETES MELLITUS AND ISCHEMIC HEART DISEASE] Kamysheva EP, Sorochkina RM, Kapatsinskaja LK, Romanova LN, Danilova MI *Sov Med* 147-8, Apr 76 (Rus) DL/77FEB403

Souchard M

[PANCREATIC SECRETION IN RATS. A COMPARATIVE STUDY OF BASAL AND STIMULATED SECRETIONS IN ACUTE AND CHRONIC FISTULA CONDITIONS (AUTHORS TRANSL.)] Chariot J, Roze C, de La Tour J, Souchard M, Vaillat C, Debray C *Pathol Biol (Paris)* 24: 457-61, Sep 76 (Fre) DL/77FEB336

Sowter C

HUMAN FAT CELL SIZING--A QUICK, SIMPLE METHOD. Ashwell M, Priest P, Bondoux M, Sowter C, McPherson CK *J Lipid Res* 17: 190-2, Mar 76 (Eng) *DL/77FEB594

Spath JA

LACK OF A SIGNIFICANT PROTECTIVE EFFECT OF AUGMENTED CIRCULATING GLUCOSE ON THE ISCHEMIC MYOCARDIUM. Spath JA, Ogletree ML, Lefer AM *Can J Physiol Pharmacol* 54: 423-9, Aug 76 (Eng) DL/77FEB36

ANIMAL; BLOOD PRESSURE (drug effects); CATS; CORONARY CIRCULATION (drug effects); CORONARY DISEASE (physiopathology); CREATINE KINASE (blood); FEMALE; GLUCOSE (pharmacodynamics); HEART RATE (drug effects); IN VITRO; INSULIN (pharmacodynamics); MALE; PAPILLARY MUSCLES (drug effects); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Spector A

HIGH MOLECULAR WEIGHT PROTEIN FROM HUMAN LENSES. Roy D, Spector A *Exp Eye Res* 22: 273-9, Mar 76 (Eng) *DL/77FEB554

Sperling MA

ROLE OF GLUCAGON IN PERINATAL GLUCOSE HOMEOSTASIS. Sperling MA, Grajew LA, Leake R, Fisher DA *Metabolism* 25: 1385-6, Nov 76 (Eng) DL/77FEB279

ANIMAL; ANIMALS, NEWBORN; BLOOD SUGAR (metabolism); GLUCAGON (blood, immunology); INSULIN (blood, immunology); SHEEP; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Spiegel AM

HOLOCATALYTIC STATE OF ADENYLATE CYCLASE IN TURKEY ERYTHROCYTE MEMBRANES: FORMATION WITH GUANYLYLIMIDODIPHOSPHATE PLUS ISOPROTERENOL WITHOUT EFFECT ON AFFINITY OF BETA-RECEPTOR. Spiegel AM, Brown EM, Fedak SA, Woodard CJ, Aurbach GD *J Cyclic Nucleotide Res* 2: 47-56, 1976 (Eng) *DL/77FEB583

ADENYL CYCLASE (blood); ANIMAL EXPERIMENTS (analysis); BINDING SITES; CELL MEMBRANE (drug effects, enzymology); EDTA (pharmacodynamics); ERYTHROCYTES (drug effects, enzymology); GUANOSINE

TRIPHOSPHATE (analogs & derivatives, pharmacodynamics); ISOPROTERENOL (pharmacodynamics); MATHEMATICS; PROTEIN BINDING; RECEPTORS; ADENERGIC; TURKEYS.

Sramkova J

INSULIN RESISTANT DIABETES MELLITUS WITHOUT THE PRESENCE OF INSULIN ANTIBODIES. A CASE REPORT. Pav J, Sramkova J, Matys Z. *Endokrinologie* 67: 373-6, 1976 (Eng) DL/77FEB71

Sreesai M

SUBACUTE ENCEPHALOMENINGITIS STRICTLY INVOLVING THE BRAIN STEM AND DIABETES MELLITUS. Shuangshoti S, Viratchai C, Sreesai M. *J Med Assoc Thai* 59: 464-9, Oct 76 (Eng) DL/77FEB198

Srikant CB

CHARACTERISTICS OF TISSUE IRGS IN THE DOG. Srikant CB, McCorkle K, Unger RH. *Metabolism* 25: 1403-4, Nov 76 (Eng) DL/77FEB283

ADENYL CYCLASE (metabolism); ANIMAL; DOGS; GLUCAGON (immunology, isolation & purification, pharmacodynamics); LIVER GLYCOGEN (metabolism); LIVER (analysis, metabolism); MOLECULAR WEIGHT; PANCREAS (analysis); RATS; STOMACH (analysis); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

THE EFFECTS OF GLUCAGON ADMINISTRATION TO NONDIABETICS AND DIABETICS. Unger RH, Aydin I, Nakabayashi H, Srikant CB, Raskin P. *Metabolism* 25: 1523-6, Nov 76 (Eng) DL/77FEB315

Stadil F

EFFECT OF STREPTOZOCIN ON GASTRIN RELEASE. Stadil F, Stage JG. *Scand J Gastroenterol [Suppl]* 11: 67-70, 1976 (Eng) *DL/77FEB680

CARCINOID TUMOR (drug therapy, secretion); FEMALE; GASTRIN (blood, secretion); HUMAN; ISLET CELL TUMOR (drug therapy, physiopathology); MALE; NEOPLASM METASTASIS; PANCREATIC NEOPLASMS (drug therapy, physiopathology); STOMACH NEOPLASMS (drug therapy, secretion); STREPTOZOTOCIN (therapeutic use).

Stage JG

EFFECT OF STREPTOZOCIN ON GASTRIN RELEASE. Stadil F, Stage JG. *Scand J Gastroenterol [Suppl]* 11: 67-70, 1976 (Eng) *DL/77FEB680

Stahlman MT

RAPID ONSET OF ESSENTIAL FATTY ACID DEFICIENCY IN THE NEWBORN. Friedman Z, Danon A, Stahlman MT, Oates JA. *Pediatrics* 58: 640-9, Nov 76 (Eng) DL/77FEB337

Stamler J

EPIDEMIOLOGIC FINDINGS ON THE RELATIONSHIP OF TIME OF DAY AND TIME SINCE LAST MEAL TO GLUCOSE TOLERANCE. Mayer KH, Stamler J, Dyer A, Freinkel N, Stamler R, Berkson DM, Farber B. *Diabetes* 25: 936-43, Oct 76 (Eng) DL/77FEB100

Stamler R

EPIDEMIOLOGIC FINDINGS ON THE RELATIONSHIP OF TIME OF DAY AND TIME SINCE LAST MEAL TO GLUCOSE TOLERANCE. Mayer KH, Stamler J, Dyer A, Freinkel N, Stamler R, Berkson DM, Farber B. *Diabetes* 25: 936-43, Oct 76 (Eng) DL/77FEB100

Stanfield S

SMALL CIRCULAR DNA IN DROSOPHILA MELANOGASTER. Stanfield S, Helinski DR. *Cell* 9: 333-45, Oct 76 (Eng) DL/77FEB41

ANIMAL; CELL LINE; CELL NUCLEUS (analysis); CENTRIFUGATION, DENSITY GRADIENT; CYCLOHEXIMIDE (pharmacodynamics); CYTARABINE (pharmacodynamics); CYTOPLASM (analysis); DROSOPHILA MELANOGASTER; DNA REPLICATION (drug effects); DNA RESTRICTION ENZYME; DNA, CIRCULAR; ETHIDIUM (pharmacodynamics); INSULIN (pharmacodynamics); KARYOTYPING; NUCLEIC ACID CONFORMATION; OVUM (analysis); PUROMYCIN (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Starzl TE

INSULIN, GLUCAGON, AND THE CONTROL OF HEPATIC STRUCTURE, FUNCTION, AND CAPACITY FOR REGENERATION. Starzl TE, Porter KA, Putnam CW. *Metabolism* 25: 1429-34, Nov 76 (Eng) DL/77FEB290

ANIMAL; DOGS; ECK FISTULA; GLUCAGON (blood, physiology); INSULIN (blood, pharmacodynamics, physiology, therapeutic use); LIVER REGENERATION (drug effects); LIVER (anatomy & histology, physiology); LIVER (transplantation); PANCREAS (blood supply); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Stearns SB

FUNCTIONAL DIFFERENTIATION OF THE CHICK ENDOCRINE PANCREAS. II. THE ALPHA CELLS AND GLUCAGON. Benzo CA, Stearns SB. *Am J Anat* 147: 273-9, Nov 76 (Eng) DL/77FEB465

Steinberg D

A MECHANISM BY WHICH HIGH-DENSITY LIPOPROTEINS MAY SLOW THE ATHEROGENIC PROCESS. Carew TE, Koschinsky T, Hayes SB, Steinberg D. *Lancet* 1: 1315-7, 19 Jun 76 (Eng) *DL/77FEB607

Steiner DF

PARTIAL PURIFICATION AND CHARACTERIZATION OF THE MRNA FOR RAT PREPROINSULIN. Duguid JR, Steiner DF, Chick WL. *Proc Natl Acad Sci USA* 73: 3539-43, Oct 76 (Eng) DL/77FEB359

Steiner H

RAT GASTRIC MUCOSAL OXYGEN TENSION, ULCER INDEX, PLASMA GASTRIN AND GLUCAGON FOLLOWING RESTRAINT STRESS. INFLUENCE OF VAGOTOMY, SPLANCHNICOTOMY AND EXOGENOUS SECRETIN. Schwille PO, Schellerer W, Steiner H, Reitzenstein M. *Res Exp Med (Berl)* 167: 149-58, 15 May 76 (Eng) DL/77FEB375

Stepien M

[RESULTS OF TREATMENT OF DIABETES IN SIPIDUS WITH PFIZERS DIABINESE (AUTHORS TRANSL.)] Chęcinska Z, Galazka A, Gruszka S, Stepien M, Milewicz A, Szklarz E. *Przegl Lek* 33: 697-9, 1976 (Pol) DL/77FEB370

Stjernholm MR

CLINICAL CORRELATIONS OF SERUM PROINSULIN-LIKE MATERIAL IN ISLET CELL TUMOURS. Alsever RN, Stjernholm MR, Sussman KE, Mako ME, Rubenstein AH. *Diabetologia* 12: 527-30, Oct 76 (Eng) DL/77FEB123

Stockinger L

[SOME ASPECTS OF BIOLOGICAL MEMBRANES: CONCEPTS AND TECHNIQUES

(AUTHORS TRANSL.)] Stockinger L, Kerjaschki D. *Wien Klin Wochenschr* 87: 709-16, 14 Nov 75 (Ger) [22] *DL/77FEB683

BASEMENT MEMBRANE (ultrastructure); CELL MEMBRANE (analysis, metabolism, ultrastructure); ENGLISH ABSTRACT; ERYTHROCYTES (ultrastructure); FREEZE ETCHING; HISTOCYTOCHEMISTRY; HUMAN; IN VITRO; KIDNEY TUBULES, PROXIMAL (cytology); LIPIDS (analysis, metabolism); MICROSCOPY, ELECTRON, SCANNING; PROTEIN BINDING; PROTEINS (metabolism); REVIEW.

Stone ML

INTENSIVE CARE OF THE PREGNANT DIABETIC. Gugliucci CL, OSullivan MJ, Opperman W, Gordon M, Stone ML. *Am J Obstet Gynecol* 125: 435-41, 15 JUN 76 (Eng) DL/77FEB469

Stoppini AO

INFLUENCE OF THE HYPOPHYSIS ON MITOCHONDRIAL PROTEIN SYNTHESIS. de Favelukes SS, de Tarlovsky MS, Bedetti CD, Stoppini AO. *Acta Physiol Lat Am* 25: 107-11, 1975 (Eng) *DL/77FEB688

Straffon RA

FOREWORD: PROLONGING LIFE IN PATIENTS WITH TERMINAL RENAL FAILURE. Straffon RA. *Urol Clin North Am* 3: 453-6, Oct 76 (Eng) DL/77FEB423

BLADDER (surgery); DIABETIC NEPHROPATHIES (surgery); GRAFT REJECTION; HUMAN; ILEUM (surgery); IMMUNOSUPPRESSION; KIDNEY FAILURE, CHRONIC (surgery); KIDNEY (transplantation); POSTOPERATIVE COMPLICATIONS (prevention & control); PREOPERATIVE CARE; TRANSPLANTATION, ALLOGENEIC; TRANSPLANTATION, AUTOLOGOUS; URINARY DIVERSION.

Strange RC

THE EFFECT OF ANTILIPOLYTIC AGENTS ON CYCLIC AMP, FREE FATTY ACID AND TOTAL CATECHOLAMINE CONCENTRATIONS IN PLASMA. Strange RC, Rowe MJ, Mjos OD, Oliver MF. *Acta Med Scand* 199: 421-4, 1976 (Eng) *DL/77FEB691

ACUTE DISEASE; ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (blood); ANIMAL EXPERIMENTS (analysis); CATECHOLAMINES (blood); CLINICAL RESEARCH; DOGS; FATTY ACIDS, NONESTERIFIED (blood); HUMAN; ISOPROTERENOL (pharmacodynamics); MYOCARDIAL INFARCT (blood); NICOTINIC ACIDS (pharmacodynamics); PLACEBOS.

Strecker G

[STUDY OF THE FUCOSE-RICH OLIGOSACCHARIDES IN THE URINE OF HEALTHY AND MELITURIC SUBJECTS WITH A, B AND O BLOOD GROUPS] Strecker G, Trentesaux-Chauvet C, Poitau A, Montreuil J. *Biochimie* 58: 805-14, 1976 (Fre) DL/77FEB11

ANTIGENIC DETERMINANTS; ABO BLOOD-GROUP SYSTEM; CHROMATOGRAPHY; CHROMATOGRAPHY, PAPER; DIABETES MELLITUS (urine); ENGLISH ABSTRACT; FEMALE; FUCOSE (urine); GALACTOSE (urine); GALACTOSEMIA (urine); GLYCOSURIA (urine); HUMAN; LACTOSE (urine); LEWIS BLOOD-GROUP SYSTEM; MALE; MOLECULAR WEIGHT; OLIGOSACCHARIDES (urine).

Streifler M

WEIGHT LOSS IN PATIENTS TREATED LONG-TERM WITH LEVODOPA. METABOLIC ASPECTS. Vardi J, Oberman Z, Rabey I, Streifler M, Ayalon D, Herzberg M. *J Neurol Sci* 30: 33-40, Nov 76 (Eng) DL/77FEB201

Strombeck DR

Strombeck DR

HYPOGLYCEMIA AND HYPOINSULINEMIA ASSOCIATED WITH HEPATOMA IN A DOG. Strombeck DR, Krum S, Meyer D, Kappesser RM *J Am Vet Med Assoc* 169: 811-2, 15 Oct 76 (Eng) DL/77FEB152

ANIMAL; BLOOD SUGAR (analysis); CASE REPORT; DOG DISEASES (etiology); DOGS; FEMALE; GLUCAGON (pharmacodynamics); HEPATOMA (complications, veterinary); HYPOGLYCEMIA (etiology, veterinary); INSULIN (blood); LIVER NEOPLASMS (complications, veterinary).

Struchkov VI

[TREATMENT OF MOIST GANGRENE OF THE LOWER LIMBS IN PATIENTS WITH DIABETES MELLITUS] Struchkov VI, Grigorian AV, Oganessian SS *Khirurgiya (Mosk)* 63-8, Sep 76 (Rus) DL/77FEB225

ADULT; DIABETES MELLITUS (complications); ENGLISH ABSTRACT; GANGRENE (etiology, therapy); HUMAN; METHODS; MIDDLE AGE.

Stukovsky R

[ANNUAL MORTALITY RHYTHM OF DIABETES MELLITUS (AUTHORS TRANSL.)] Valsik JA, Stukovsky R *Bratisl Lek Listy* 65: 494-501, May 76 (Slo) DL/77FEB34

Sturdee DW

GLUCOSE TOLERANCE AND HORMONE REPLACEMENT THERAPY. A PRELIMINARY STUDY. Sturdee DW, Gustafson RC, Moore B *Postgrad Med J* 52 SUPPL 6: 52-4, 1976 (Eng) DL/77FEB352

BLOOD SUGAR (analysis); CLIMATIC (drug effects); COMPARATIVE STUDY; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; MESTRANOL (therapeutic use); NORETHINDRONE (therapeutic use).

Sudre Y

[ROLE OF PERHEXILINE MALEATE AND BETA BLOCKING AGENTS IN THE DEVELOPMENT OF SEVERE HYPOGLYCEMIA (LETTER)] Sudre Y, Becq-Giraudon B, Pouget-Abadie JF, Demange J, Boutaud PH *Nouv Presse Med* 5: 1999, 25 Sep 76 (Fre) DL/77FEB341

ADRENERGIC BETA RECEPTOR BLOCKADERS (adverse effects, physiology); AGED; CASE REPORT; FEMALE; HUMAN; HYPOGLYCEMIA (chemically induced, physiopathology); MALE; MIDDLE AGE; PERHEXILINE (adverse effects, physiology); PIPERIDINES (adverse effects).

[DIABETES MELLITUS IN PHEOCHROMOCYTOMA] Sudre Y, Becq-Giraudon B, Pouget-Abadie JF, Boutaud P, Barbier J, Meriel P, Gasquet C, Babin P *Sem Hop Paris* 52: 1893-902, 16 OCT 76 (Fre) DL/77FEB399

CASE REPORT; CATECHOLAMINES (physiology); DIABETES MELLITUS (etiology, occurrence); EMACIATION (etiology); ENGLISH ABSTRACT; HUMAN; HYPERTENSION (etiology); MALE; MIDDLE AGE; PHEOCHROMOCYTOMA (complications, surgery).

Sul H

CONTROL OF ENERGY PRODUCTION IN MYOCARDIAL ISCHEMIA. Shrago E, Shug AL, Sul H, Bittar N, Folts JD *Circ Res* 38: 175-9, May 76 (Eng) *DL/77FEB540

Sundby F

PURIFICATION AND CHARACTERIZATION OF A PROTEIN FROM PORCINE GUT WITH GLUCAGON-LIKE IMMUNOREACTIVITY. Sundby F, Jacobsen H, Moody AJ *Horm Metab Res* 8: 366-71, Sep 76 (Eng) DL/77FEB143

AMINO ACID SEQUENCE; AMINO ACIDS (analysis); ANIMAL; DUODENUM (physiology); GLUCAGON (immunology); ILEUM

(physiology); INTESTINE, SMALL (physiology); JEJUNUM (physiology); MOLECULAR WEIGHT; MUSCLE PROTEINS (immunology, isolation & purification); PEPTIDE FRAGMENTS (analysis); RADIOIMMUNOASSAY; SWINE.

SPECIES VARIATIONS IN THE PRIMARY STRUCTURE OF GLUCAGON. Sundby F *Metabolism* 25: 1319-21, Nov 76 (Eng) DL/77FEB265

AMINO ACIDS (analysis); ANIMAL; BIRDS; FISHES; GLUCAGON; HUMAN; MAMMALS; MOLECULAR WEIGHT; SPECIES SPECIFICITY.

Sunderman FW Jr

EFFECTS OF TRIETHYLENETETRAMINE UPON THE METABOLISM AND TOXICITY OF 63NiCl₂ IN RATS. Sunderman FW Jr, Kasprzak K, Horak E, Giltitz P, Onkelinx C *Toxicol Appl Pharmacol* 38: 177-88, Oct 76 (Eng) DL/77FEB414

AMINOACIDURIA, RENAL (chemically induced); ANIMAL; BILE (metabolism); BLOOD SUGAR (metabolism); ETHYLENEDIAMINES (pharmacodynamics); FECES (analysis); GLUCAGON (blood); INSULIN (blood); MALE; NICKEL (metabolism, toxicity); PROTEINURIA (chemically induced); RADIOISOTOPES; RATS; RATS, INBRED F344; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Suquet JP

METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E *Diabete Metab* 1: 77-85, Jun 75 (Eng) DL/77FEB95

Sussman KE

CLINICAL CORRELATIONS OF SERUM PROINSULIN-LIKE MATERIAL IN ISLET CELL TUMOURS. Alsever RN, Stjernholm MR, Sussman KE, Mako ME, Rubenstein AH *Diabetologia* 12: 527-30, Oct 76 (Eng) DL/77FEB123

Sutherland DE

SPECIAL PROBLEMS IN DIABETIC RENAL TRANSPLANTATION. Simmons RL, Payne WD, Sutherland DE, Howard RJ, Goetz FC, Barbosa J, Kjellstrand CM, Najarian JS *Urol Clin North Am* 3: 691-9, Oct 76 (Eng) DL/77FEB424

Sutton J

GROWTH HORMONE IN EXERCISE: COMPARISON OF PHYSIOLOGICAL AND PHARMACOLOGICAL STIMULI. Sutton J, Lazarus L *Biochem J* 157: 523-7, 1 Sep 76 (Eng) DL/77FEB498

ADULT; ARGININE (pharmacodynamics); COMPARATIVE STUDY; EXERCISE; HUMAN; HYPOGLYCEMIA (blood); INSULIN (pharmacodynamics); LEVODOPA (pharmacodynamics); MALE; RADIOIMMUNOASSAY; SLEEP; SOMATOTROPIN (blood).

Suwa N

MORPHOMETRIC METHOD TO ESTIMATE THE PARAMETERS OF DISTRIBUTION FUNCTIONS ASSUMED FOR SPHERICAL BODIES FROM MEASUREMENTS ON A RANDOM SECTION. Suwa N, Takahashi T, Saito K, Sawai T *Tohoku J Exp Med* 118: 101-11, Feb 76 (Eng) DL/77FEB413

BIOMETRY; ISLANDS OF LANGERHANS (ultrastructure); MATHEMATICS; MODELS, THEORETICAL.

Suzuki R

[GIANT TUMOR OF THE MEDIASTINUM ASSOCIATED WITH HYPOGLYCEMIA: STUDY OF HYPOGLYCEMIA CAUSED BY EXTRANATURAL PANCREATIC TUMOR] Ishikawa S, Suzuki R,

Onishi T *J Jpn Assoc Thorac Surg* 24: 967-75, Jul 76 (Jpn) DL/77FEB194

Swanson E

THE EVOLUTIONARY ORIGIN OF PROINSULIN. AMINO ACID SEQUENCE HOMOLOGY WITH THE TRYPSIN-RELATED SERINE PROTEASES DETECTED AND EVALUATED BY NEW STATISTICAL METHODS. de Haen C, Swanson E, Teller DC *J Mol Biol* 106: 639-61, 25 Sep 76 (Eng) DL/77FEB215

Sweeley CC

BETA-HYDROXY FATTY ACID PRODUCTION DURING FATTY ACID OXIDATION BY HEART MITOCHONDRIA. Hull FE, Radloff JF, Sweeley CC *Recent Adv Stud Cardiac Struct Metab* 7: 13-21, 1975 (Eng) *DL/77FEB57

Swiss M

FACTORS AFFECTING THE ACTIVITY OF CITRATE SYNTHASE OF ACETOBACTER XYLINUM AND ITS POSSIBLE REGULATORY ROLE. Swiss M, Benziman M *Biochem J* 153: 173-9, 1 Feb 76 (Eng) *DL/77FEB113

ACETOBACTER (enzymology); ACETYL COENZYME A; ADENOSINE TRIPHOSPHATE (pharmacodynamics); AMMONIUM COMPOUNDS (pharmacodynamics); CITRATE SYNTHASE (antagonists & inhibitors, isolation & purification, metabolism); COENZYME A (pharmacodynamics); GLUCOSE; HYDROXYMERCURIBENZOATES (pharmacodynamics); KETOACID-LYASES (metabolism); KINETICS; MAGNESIUM (pharmacodynamics); NAD (pharmacodynamics); NADP (pharmacodynamics); OXALOACETATES; PHILIPPINES (physiology); SUCCINATES.

Syzgantseva LM

[RELATIONSHIP BETWEEN HORMONE CONCENTRATION IN PERIPHERAL BLOOD IN HYPERTENSION, ARTERIOSCLEROSIS AND OBESITY] Kokina LP, Lyskova MN, Tkacheva GA, Gabuniia RI, Syzgantseva LM *Ter Arkh* 48: 81-4, 1976 (Rus) DL/77FEB410

Szafranek J

GAS CHROMATOGRAPHIC STUDY OF FREE POLYOLS AND ALDOSES IN CATARACTOUS HUMAN LENS TISSUE. Pfaffenberger CD, Szafranek J, Horning EC *J Chromatogr* 126: 535-45, 3 Nov 76 (Eng) DL/77FEB164

Szajewski JM

[EVALUATION OF GLIPIZIDE] Nowotna-Walcowa R, Szajewski JM, Walc J *Wid Lek* 29: 1607-10, 15 Sep 76 (Pol) DL/77FEB431

Szczeklik J

[POLYCARDIOGRAPHIC EVALUATION OF LEFT VENTRICULAR CONTRACTION FOLLOWING GLUCAGON ADMINISTRATION TO PATIENTS WITH CHRONIC CIRCULATORY FAILURE] Szczeklik J, Dubiel J, Pyzik Z *Pol Tyg Lek* 31: 1709-12, 4 Oct 76 (Pol) DL/77FEB347

ADOLESCENCE; ADULT; CHRONIC DISEASE; ENGLISH ABSTRACT; FEMALE; GLUCAGON (pharmacodynamics, therapeutic use); HEART FAILURE, CONGESTIVE (diagnosis, drug therapy, physiopathology); HEART VENTRICLE (physiopathology); HUMAN; MALE; MIDDLE AGE; MYOCARDIAL INFARCT (drug therapy).

Sznelerowa T

[HIGH-PROTEIN BREAD FOR DIABETICS] Rojszykowska E, Sznelerowa T, Baniecki H, Lawecki J *Pol Tyg Lek* 31: 1729-31, 4 Oct 76 (Pol) DL/77FEB348

Szklarsz E

[RESULTS OF TREATMENT OF DIABETES IN SIPIDUS WITH PFIZERS DIABINESE

(AUTHORS TRANSL.) Chęcinska Z, Galazka A, Gruska S, Stepień M, Milewicz A, Szklarczyk E *Przegl Lek* 33: 697-9, 1976 (Pol) DL/77FEB370

Szydlowska H

FURTHER STUDIES ON THE POSSIBILITY OF DIFFERENTIAL DEMONSTRATION OF RADICALS OF SULPHUR-CONTAINING AMINO-ACIDS. Szydlowska H, Junikiewicz E *Folia Histochem Cytochem (Krakow)* 14: 57-62, 1976 (Eng) *DL/77FEB563
AMINO ACIDS (analysis); ANIMAL EXPERIMENTS (analysis); BRAIN CHEMISTRY; BRAIN (cytology); CYSTEINE (analysis); ETHYLMALIMIDE; HOMOCYSTEINE (analysis); LIVER (analysis, cytology); METHIONINE (analysis); RATS; STAINS AND STAINING.

Taft P

PRINCIPLES OF MANAGEMENT OF MATURITY ONSET DIABETES. Taft P *Aust Fam Physician* 5: 656-8, Jun 76 (Eng) DL/77FEB495
DIABETES MELLITUS (therapy); HUMAN; MIDDLE AGE.

Tager HS

IMMUNOREACTIVE GLUCAGONS IN PANCREATIC ISLETS. Tager HS, Markese J *Metabolism* 25: 1343-6, Nov 76 (Eng) DL/77FEB270
ANIMAL; GLUCAGON (analysis, immunology); ISLANDS OF LANGERHANS (analysis); MOLECULAR WEIGHT; PROTEIN PRECURSORS (immunology); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Taichman GC

THE HORMONAL RESTORATION OF THE INTRINSIC CONTRACTILE FUNCTION OF THE ATROPHIC HEARTS OF HYPOPHYSECTOMIZED RATS. Korecky B, Taichman GC, Minelli R, Beznak M *Recent Adv Stud Cardiac Struct Metab* 1: 71-80, 1972 (Eng) *DL/77FEB651

Takahara J

[IN VITRO ASSAY FOR ACTH-RELEASING ACTIVITY USING ACTH RADIOIMMUNOASSAY: ACTH RELEASING ACTIVITIES BY VARIOUS DRUGS (AUTHORS TRANSL.) Hashimoto K, Takahara J, Hosogi H, Ofuji N, Yasuhara T *Folia Endocrinol Jpn* 52: 114-24, 20 Feb 76 (Jpn) DL/77FEB82

COMPARISON STUDIES OF NEUROTENSIN AND XENOPIN UPON PANCREATIC SECRETION IN THE DOG [PROCEEDINGS]. Ishida T, Kawamura K, Goto A, Nishina Y, Takahara J *Metabolism* 25: 1467, Nov 76 (Eng) DL/77FEB301

Takahashi T

MORPHOMETRIC METHOD TO ESTIMATE THE PARAMETERS OF DISTRIBUTION FUNCTIONS ASSUMED FOR SPHERICAL BODIES FROM MEASUREMENTS ON A RANDOM SECTION. Suwa N, Takahashi T, Saito K, Sawai T *Tohoku J Exp Med* 118: 101-11, Feb 76 (Eng) DL/77FEB413

Taminato T

IMPAIRED PLASMA INSULIN RESPONSE TO ARGININE IN HYPERTHYROIDISM. IMPORTANT ROLE OF THE RISE OF BLOOD GLUCOSE IN THE SECOND PHASE OF INSULIN RELEASE INDUCED BY ARGININE. Imura H, Seino Y, Ikeda M, Taminato T, Miyamoto Y *Diabetes* 25: 961-8, Oct 76 (Eng) DL/77FEB104

Tan S

SALIVARY GLAND GLUCAGON IN MAN AND ANIMALS. Lawrence AM, Tan S, Hojvat S, Kirsteins L, Milton J *Metabolism* 25: 1405-8, Nov 76 (Eng) DL/77FEB284

Tanaka R

INTESTINAL ABSORPTION CHARACTERISTICS OF BUFORMIN AND PHENFORMIN IN RATS. Kojima S, Tanaka R, Hamada C *Chem Pharm Bull (Tokyo)* 24: 1555-60, Jul 76 (Eng) DL/77FEB42

Tanaka T

[A STUDY OF ROENTGENOLOGIC AORTIC CALCIFICATION, GLUCOSE TOLERANCE, AND INSULIN SECRETORY RESPONSE (AUTHORS TRANSL.) Tanaka T, Seki A, Fujii J, Kuzuya N *J Jpn Soc Intern Med* 65: 569-74, 10 Jun 76 (Jpn) DL/77FEB195
ADULT; AGED; AORTIC DISEASES (complications, radiography); CALCINOSIS (complications, radiography); DIABETES MELLITUS (complications); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (secretion); MALE; MIDDLE AGE.

Taniguchi H

HIGH CONCENTRATION OF GABA AND HIGH GLUTAMATE DECARBOXYLASE ACTIVITY IN RAT PANCREATIC ISLETS AND HUMAN INSULINOMA. Okada Y, Taniguchi H, Shimada C *Science* 194: 620-2, 5 Nov 76 (Eng) DL/77FEB398

Taniguchi M

EXCHANGE OF PHOSPHOLIPIDS BETWEEN MITOCHONDRIA AND ROUGH OR SMOOTH MICROSOMES IN VITRO. Taniguchi M, Sakagami T *J Biochem (Tokyo)* 77: 1245-8, Jun 75 (Eng) *DL/77FEB567
ANIMAL EXPERIMENTS (analysis); BINDING SITES; BIOLOGICAL TRANSPORT; FEMALE; MICROSOMES, LIVER (metabolism); MITOCHONDRIA, LIVER (metabolism); PHOSPHOLIPIDS (metabolism); PROTEIN BINDING; PROTEINS (metabolism); RATS.

Tanner MS

PREMATURE RUPTION AND MACRODONITIA ASSOCIATED WITH INSULIN RESISTANT DIABETES AND PINEL HYPERPLASIA. REPORT OF TWO CASES. Holmes J, Tanner MS *Br Dent J* 141: 280-4, 2 Nov 76 (Eng) DL/77FEB4

Tarasco A

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL.) Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77FEB83

Tatra G

[CONCENTRATION OF PREGNANCY-SPECIFIC-BETA-1-PROTEIN SPI IN AMNIOTIC FLUID IN NORMAL AND PATHOLOGIC PREGNANCIES (AUTHORS TRANSL.) Tatra G, Polak S, Placheta P *Arch Gynaekol* 221: 161-6, 17 Sep 76 (Ger) DL/77FEB494
AMNIOCENTESIS; AMNIOTIC FLUID (analysis); ENGLISH ABSTRACT; ERYTHROBLASTOSIS, FETAL (metabolism); FEMALE; FETAL DEATH; GLYCOPROTEINS (analysis); HUMAN; PREGNANCY IN DIABETES (metabolism); PREGNANCY COMPLICATIONS (metabolism); PREGNANCY; RH-HR BLOOD-GROUP SYSTEM.

Tattersall RB

CAN PHENFORMIN-INDUCED LACTIC ACIDOSIS BE PREVENTED Gale EA, Tattersall RB *Br Med J* 2: 972-5, 23 Oct 76 (Eng) DL/77FEB32

Taura S

ULTRASTRUCTURAL STUDIES OF HUMAN ACUTE PANCREATITIS. Taura S, Tsunoda T,

Yoshino R, HARADA N, Akashi M *Gastroenterol Jpn* 10: 132-40, 1975 (Eng) DL/77FEB127
ACUTE DISEASE; ADULT; CASE REPORT; FEMALE; HEMORRHAGE (pathology); HUMAN; ISLANDS OF LANGERHANS (ultrastructure); MICROSCOPY, ELECTRON; NECROSIS; PANCREAS (ultrastructure); PANCREATIC DUCTS (ultrastructure); PANCREATITIS (pathology).

Tchobroutsky G

[PATHOGENESIS, PHYSIOPATHOLOGY, AND EPIDEMIOLOGY OF DIABETIC MICROANGIOPATHY] Hauteceuvre M, Basdevant A, Slama G, Tchobroutsky G *Rev Prat* 26: 3085-93, 11 Oct 76 (Fre) DL/77FEB381

[SIGNIFICANCE OF BLOOD SUGAR NORMALIZATION IN THE PREVENTION OF VASCULAR COMPLICATIONS IN DIABETES MELLITUS] Tchobroutsky G, Slama G *Rev Prat* 26: 3159-71, 11 Oct 76 (Fre) [17] DL/77FEB387

ACETYLGLUCOSAMINIDASE (blood); ANIMAL; DIABETIC ANGIOPATHIES (immunology, prevention & control); DIABETIC RETINOPATHY (prevention & control); ENGLISH ABSTRACT; GLYCOPROTEINS (blood); HUMAN; HYPERGLYCEMIA (enzymology, prevention & control); INSULIN (therapeutic use); RATS; REVIEW.

Teller DC

THE EVOLUTIONARY ORIGIN OF PROINSULIN. AMINO ACID SEQUENCE HOMOLOGY WITH THE TRYPSIN-RELATED SERINE PROTEASES DETECTED AND EVALUATED BY NEW STATISTICAL METHODS. de Haen C, Swanson E, Teller DC *J Mol Biol* 106: 639-61, 25 Sep 76 (Eng) DL/77FEB215

ten Hoor F

INFLUENCES OF DIETARY FATS ON THE CORONARY FLOW AND OXYGEN CONSUMPTION OF THE ISOLATED RAT HEART. de Deckere EA, ten Hoor F *Recent Adv Stud Cardiac Struct Metab* 7: 475-83, 1975 (Eng) *DL/77FEB676

Thomas K

PLASMA CONCENTRATIONS OF UNCONJUGATED ESTRONE, ESTRADIOL-17BETA AND ESTRIOL, AND HCS THROUGHOUT PREGNANCY IN DIABETICS AND GESTATIONAL DIABETICS. De Hertogh R, Thomas K, Hoet JJ, Vanderheyden I *Diabetologia* 12: 455-61, Oct 76 (Eng) DL/77FEB114

Thomas M

CATECHOLAMINES AND MYOCARDIAL INFARCTION. Young RC, Thomas M, Evans ME, Opie LH *Recent Adv Stud Cardiac Struct Metab* 1: 163-8, 1972 (Eng) *DL/77FEB637

Thompson JH

PLASMA RENIN ACTIVITY IN DIABETIC AUTONOMIC NEUROPATHY. Campbell IW, Ewing DJ, Anderton JL, Thompson JH, Horn DB, Clarke BF *Eur J Clin Invest* 6: 381-5, 10 Sep 76 (Eng) DL/77FEB73

Thompson JS

INBRED MICE AND THEIR HYBRIDS AS AN ANIMAL MODEL FOR ATHEROSCLEROSIS RESEARCH. Roberts A, Thompson JS *Adv Exp Med Biol* 67: 313-327, 1976 (Eng) *DL/77FEB695

Tickle IJ

THE RELATION OF STRUCTURE TO STORAGE AND RECEPTOR BINDING OF GLUCAGON. Blundell TL, Dockerill S, Sasaki K, Tickle IJ, Wood SP *Metabolism* 25: 1331-6, Nov 76 (Eng) DL/77FEB268

Diabetes Literature—Author Index

Tkacheva GA

Tkacheva GA

[RELATIONSHIP BETWEEN HORMONE CONCENTRATION IN PERIPHERAL BLOOD IN HYPERTENSION, ARTERIOSCLEROSIS AND OBESITY] Kokina LP, Lyskova MN, Tkacheva GA, Gabuniia RI, Syzgantseva LM *Ter Arkh* 48: 81-4, 1976 (Rus) DL/77FEB410

Tobin JD

EFFECTS OF ARTERIAL VERSUS VENOUS SAMPLING ON ANALYSIS OF GLUCOSE KINETICS IN MAN. McGuire EA, Helderman JH, Tobin JD, Andres R, Berman M *Biochem J* 157: 565-73, 1 Sep 76 (Eng) DL/77FEB500

Tokhadze OG

[ANTAGONISM IN THE ACTION OF HYDROCORTISONE AND INSULIN IN VIVO ON ENZYMES OF PYRUVATE AND MALATE METABOLISM IN ADIPOSE TISSUE] Ilin VS, Vasileva LE, Tokhadze OG *Biokhimiia* 41: 1646-50, Sep 76 (Rus) DL/77FEB12

Tolle W

[FATTY ACID PATTERN OF LIPID FRACTIONS IN THE BLOOD. II. CONTROL PERSONS] Lohninger A, Weigl K, Riedl W, Heinkelmann W, Tolle W, Schlag G, Landauer B, Blumel G *Med Welt* 27: 923-6, 7 May 76 (Ger) *DL/77FEB609

Tordet-Caridroit C

STUDIES ON EXPERIMENTAL HYPOTROPHY IN THE RAT. III. PLASMA INSULIN AND GLUCAGON. Girard JR, Chanez C, Kervran A, Tordet-Caridroit C, Assan R *Biol Neonate* 29: 262-6, 1976 (Eng) DL/77FEB13

Toure M

[EFFECT OF UNSATURATED DIETARY FATS ON GROWTH AND LIPOGENESIS IN RATS] Demarne Y, Toure M, Flanz J, Lecourtier MJ *Nutr Metab* 19: 28-40, 1975 (Fre) *DL/77FEB615

Tourne CE

[ALPHA FETO PROTEIN. NORMAL PREGNANCIES AND MATERNAL DISEASES. APROPOS OF 3,010 RADIOIMMUNOLOGIC DETERMINATIONS] Brettes JP, Tourne CE, Gandar R *J Gynecol Obstet Biol Reprod (Paris)* 5: 637-44, Jul-Aug 76 (Fre) DL/77FEB176

Trayhurn P

NEUTRAL PROTEINASE ACTIVITY IN THE HUMAN LENS. Trayhurn P, van Heyningen R *Exp Eye Res* 22: 251-7, Mar 76 (Eng) *DL/77FEB553

CALCIUM (pharmacodynamics); CARBOXYPEPTIDASES (metabolism); CATARACT (enzymology); CRYSTALLINS; EDTA (pharmacodynamics); HUMAN; LENS; CRYSTALLINE (drug effects, enzymology); LEUCINE AMINOPEPTIDASE (metabolism); MAGNESIUM (pharmacodynamics); PEPTIDE HYDROLASES (antagonists & inhibitors, metabolism); PHILIPPINES (physiology).

Trede M

[TOTAL PANCREATECTOMY (EDITORIAL)] Trede M *Langenbecks Arch Chir* 340: 227-30, 23 Apr 76 (Ger) DL/77FEB254

CASE REPORT; CHRONIC DISEASE; DIABETES MELLITUS (drug therapy, etiology); HUMAN; INSULIN (therapeutic use); MALE; MIDDLE AGE; PANCREATECTOMY (methods); PANCREATIC NEOPLASMS (surgery); PANCREATITIS (surgery); POSTOPERATIVE COMPLICATIONS (poisoning).

Trenkle A

ESTIMATES OF THE KINETIC PARAMETERS OF GROWTH HORMONE METABOLISM IN FED AND FASTED CALVES AND SHEEP.

Trenkle A *J Anim Sci* 43: 1035-43, Nov 76 (Eng) DL/77FEB153

ANIMAL FEED; ANIMAL; BLOOD SUGAR (analysis); CATTLE (blood); FASTING; INSULIN (blood); MALE; SHEEP (blood); SOMATOTROPIN (blood).

Trentesaux-Chauvet C

[STUDY OF THE FUCOSE-RICH OLIGOSACCHARIDES IN THE URINE OF HEALTHY AND MELITURIC SUBJECTS WITH A, B AND O BLOOD GROUPS] Strecker G, Trentesaux-Chauvet C, Poitou A, Montreuil J *Biochimie* 58: 805-14, 1976 (Fre) DL/77FEB11

Tric F

[LONG-TERM PROGNOSIS OF INFANTILE DIABETES (EDITORIAL)] Lestrade H, Besse J, Billaud L, Battistelli F, Tric F, Lestrade F *Nouv Presse Med* 6: 2297-8, 23 Oct 76 (Fre) DL/77FEB345

Trowell H

DIETS FOR DIABETICS [LETTER]. Trowell H *Br Med J* 2: 1011-2, 23 Oct 76 (Eng) DL/77FEB30

DIABETIC DIET (standards); DIETARY CARBOHYDRATES; HUMAN; MALE.

Trueheart PA

PROINSULIN SYNTHESIS IN ISLETS OF LANGERHANS FROM SPINY MICE (ACOMYS CAHIRINUS). COMPARISON WITH RATS AND MICE. Trueheart PA, Maldonado A, Kaelin D, Renold AE, Sharp GW *Diabetologia* 12: 463-70, Oct 76 (Eng) DL/77FEB115

ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL; COMPARATIVE STUDY; GLUCOSE (pharmacodynamics); IN VITRO; ISLANDS OF LANGERHANS (metabolism); MICE (metabolism); PROINSULIN (biosynthesis); PROTEINS (biosynthesis); RATS; SPECIES SPECIFICITY; TIME FACTORS.

EFFECTS OF STREPTOZOTOCIN IN VITRO ON PROINSULIN BIOSYNTHESIS, INSULIN RELEASE AND ATP CONTENT OF ISOLATED RAT ISLETS OF LANGERHANS. Maldonado A, Trueheart PA, Renold AE, Sharp GW *Diabetologia* 12: 471-81, Oct 76 (Eng) DL/77FEB116

Trznadel K

[BIOCHEMICAL AND CLINICAL ASPECTS OF MYOINOSITOL] Trznadel K, Lutz W *Pol Tyg Lek* 31: 1857-9, 25 OCT 76 (Pol) [27] DL/77FEB351

ANIMAL; BIOLOGICAL TRANSPORT; ACTIVE; CELL MEMBRANE (metabolism); DIABETES MELLITUS (metabolism); FATTY LIVER (metabolism); GUINEA PIGS; HUMAN; INOSITOL (cerebrospinal fluid, deficiency, metabolism); KIDNEY (metabolism); LIVER (metabolism); MULTIPLE SCLEROSIS (cerebrospinal fluid); NEPHRITIS (metabolism); RATS; REVIEW; UREMIA (metabolism).

Tsalikian E

EFFECTS OF ACUTE INSULIN WITHDRAWAL AND ADMINISTRATION ON PLASMA GLUCAGON RESPONSES TO INTRAVENOUS ARGinine IN INSULIN-DEPENDENT DIABETIC SUBJECTS. Gerich JE, Lorenzi M, Tsalikian E, Bohannon NV, Schneider V, Karam JH, Forsham PH *Diabetes* 25: 955-60, Oct 76 (Eng) DL/77FEB103

Tsan MF

EFFECTS OF MITOGENS ON GLUCOSE OXIDATION BY LYMPHOCYTES FROM NORMAL INDIVIDUALS AND PATIENTS WITH CHRONIC LYMPHOCYTIC LEUKEMIA. Tsan MF, Chen WY, Newman B, Wagner HN Jr, McIntyre PA *Johns Hopkins Med J* 138: 113-8, Apr 76 (Eng) *DL/77FEB603

AGED; CHLOROMERCURIPHENYLSULFONATE

(pharmacodynamics); COLCHICINE (pharmacodynamics); CONCAVALIN A (antagonists & inhibitors, pharmacodynamics); DRUG ANTAGONISM; ENDOTOXINS (pharmacodynamics); FEMALE; GLUCOSE (metabolism); HUMAN; LEUKEMIA, LYMPHOCYTIC (metabolism); LYMPHOCYTES (drug effects, metabolism); MAGNESIUM (pharmacodynamics); MIDDLE AGE; MITOGENS (pharmacodynamics); OXIDATION-REDUCTION; PLANT AGGLUTININS (pharmacodynamics); STIMULATION, CHEMICAL; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Tsiskarishvili NV

[ROLE OF THE THROMBOCYTES IN CHANGES IN THE HEMOSTATIC SYSTEM IN DIABETES MELLITUS] Petrov MN, Gavrishcheva NA, Filatova AM, Tsiskarishvili NV, Vashkinel VK *Klin Med (Mosk)* 54: 119-22, Jul 76 (Rus) DL/77FEB229

Tsunoda T

ULTRASTRUCTURAL STUDIES OF HUMAN ACUTE PANCREATITIS. Taura S, Tsunoda T, Yoshino R, HARADA N, Akashi M *Gastroenterol Jpn* 10: 132-40, 1975 (Eng) DL/77FEB127

Tulloch JA

DOMINANT INHERITANCE DIABETES MELLITUS. Tulloch JA, Adamson DG *J R Coll Physicians Lond* 11: 86-90, Oct 76 (Eng) DL/77FEB214

ADOLESCENCE; ADULT; AGED; CASE REPORT; CHLORPROPAMIDE (therapeutic use); DIABETES MELLITUS (diet therapy, drug therapy, familial & genetic); FEMALE; GENES; DOMINANT; GENOTYPE; GLUCOSE TOLERANCE TEST; HUMAN; INFANT; NEWBORN; MALE; MIDDLE AGE; PEDIGREE; PREGNANCY IN DIABETES; PREGNANCY.

Turner P

STUDIES WITH FLUTIOREX, A NEW ANORECTIC DRUG, ON GLUCOSE UPTAKE INTO HUMAN ISOLATED SKELETAL MUSCLE. Kirby MJ, Carageorgiou-Markomihalakis H, Turner P *Br J Clin Pharmacol* 2: 541-2, Dec 75 (Eng) DL/77FEB6

EFFECT OF SOME RECEPTOR ANTAGONISTS ON FENFLURAMINE-INDUCED GLUCOSE UPTAKE INTO THE ISOLATED RAT HEMIADIPHRAGM [PROCEEDINGS]. Kirby MJ, Turner P *Br J Pharmacol* 58: 286p-287p, Oct 76 (Eng) DL/77FEB18

Turnheim K

MYOCARDIAL SUBSTRATE LEVELS IN VIVO DURING HYPOXIA OF VARIOUS DEGREES AND DURATION. Weissel M, Turnheim K *Recent Adv Stud Cardiac Struct Metab* 7: 275-82, 1975 (Eng) *DL/77FEB669

Uchiyama M

SOME FACTORS AFFECTING CHAIN ELONGATION OF PALMITYL-CoA IN RAT LIVER MICROSOMES. Nakagawa M, Kawashima Y, Uchiyama M *Chem Pharm Bull (Tokyo)* 24: 46-51, Jan 76 (Eng) *DL/77FEB533

Uebersax R

[HYPOGLYCAEMIA (AUTHORS TRANSL)] Uebersax R, Jeanmonod D, Meyrat CA *Praxis* 65: 504-9, 27 Apr 76 (Fre) DL/77FEB354

ALCOHOLISM (complications); DIAZOXIDE (therapeutic use); ENDOCRINE DISEASES (complications); ENGLISH ABSTRACT; ENZYMES (deficiency); GLUCOSE (therapeutic use); HUMAN; HYDROCORTISONE (therapeutic use); HYPOGLYCEMIA (etiology); LIVER DISEASES (complications); MALABSORPTION SYNDROMES (complications); PANCREATIC DISEASES (complications); STREPTOZOTOCIN (therapeutic use).

Ulick S

CRITERIA FOR DIAGNOSIS OF ALDOSTERONE BIOSYNTHETIC DEFECTS [LETTER]. Rossler A, Ulick S *N Engl J Med* 295: 1383, 9 Dec 76 (Eng) DL/77FEB325

Unger RH

CHARACTERISTICS OF TISSUE IRGS IN THE DOG. Srikant CB, McCorkle K, Unger RH *Metabolism* 25: 1403-4, Nov 76 (Eng) DL/77FEB283

EFFECTS OF NEUTENSIN AND SUBSTANCE P ON INSULIN AND GLUCAGON RELEASE BY THE PERFUSED DOG PANCREAS [PROCEEDINGS]. Patton G, Brown M, Dobbs R, Vale W, Unger RH *Metabolism* 25: 1465, Nov 76 (Eng) DL/77FEB300

GASTRIC GLUCAGON SECRETION. Blazquez E, Munoz-Barragan L, Patton GS, Dobbs R, Unger RH *Metabolism* 25: 1475-6, Nov 76 (Eng) DL/77FEB303

STIMULATION OF PANCREATIC IMMUNOREACTIVE SOMATOSTATIN (IRS) RELEASE BY GLUCAGON [PROCEEDINGS]. Patton GS, Dobbs R, Orci L, Vale W, Unger RH *Metabolism* 25: 1499, Nov 76 (Eng) DL/77FEB308

THE EFFECTS OF GLUCAGON ADMINISTRATION TO NONDIABETICS AND DIABETICS. Unger RH, Aydin I, Nakabayashi H, Srikant CB, Raskin P *Metabolism* 25: 1523-6, Nov 76 (Eng) DL/77FEB315

BLOOD SUGAR (metabolism); C-PEPTIDE (blood); DIABETES MELLITUS (blood); GLUCAGON (blood, pharmacodynamics); HUMAN; INSULIN (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

EVIDENCE FOR AN INSULIN-INDEPENDENT ALPHA-CELL ABNORMALITY IN HUMAN DIABETES. Bennett PH, Aronoff SL, Unger RH *Metabolism* 25: 1527-9, Nov 76 (Eng) DL/77FEB316

THE EFFECTS OF ACUTE AND CHRONIC INSULIN ADMINISTRATION ON PLASMA IRG LEVELS IN HUMAN DIABETES. Raskin P, Aydin I, Unger RH *Metabolism* 25: 1531-3, Nov 76 (Eng) DL/77FEB317

PHYSIOLOGY AND PATHOPHYSIOLOGY OF GLUCAGON. Unger RH, Orci L *Physiol Rev* 56: 778-826, Oct 76 (Eng) [164] DL/77FEB365

ANIMAL; CATTLE; CEREBROVASCULAR CIRCULATION; DIABETES MELLITUS (metabolism); DIET; DOGS; EXERTION; FATTY ACIDS, NONESTERIFIED (metabolism); GLUCAGON (immunology, physiology, secretion); GLUCOSE (metabolism); GLYCERIN (metabolism); HUMAN; INSULIN (metabolism); INTERCELLULAR JUNCTIONS (ultrastructure); ISLANDS OF LANGERHANS (cytology, ultrastructure); KETONES (metabolism); LIVER (metabolism); MALE; OBESITY (metabolism); RABBITS; RATS; RECEPTORS, HORMONE (metabolism); REGIONAL BLOOD FLOW; REVIEW; STARVATION; STOMACH (ultrastructure); SWINE.

GASTRIC A-CELL FUNCTION IN NORMAL DOGS. Munoz-Barragan L, Blazquez E, Patton GS, Dobbs RE, Unger RH *Am J Physiol* 231: 1057-61, Oct 76 (Eng) DL/77FEB474

Uriach Marsal J

[PHARMACOKINETIC OF GLIPENTIDE (UR-661) BY IV. ADMINISTRATION ON HEALTHY AND DIABETIC VOLUNTEERS (AUTHORS TRANSL.)] Rimbau Barreras V, Uriach Marsal J, Pou Torello JM *Arch Pharmacol Toxicol* 2: 115-22, Aug 76 (Spa) DL/77FEB491

Ursick J

MODIFICATION OF CELLULAR LIPID METABOLISM BY PSYCHOLOGICAL

STRESS. Rose KD, Ursick J, Maca R *Recent Adv Stud Cardiac Struct Metab* 1: 729-41, 1972 (Eng) *DL/77FEB653

Ustupka J

[EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL, TESTOSTERONE AND GROWTH HORMONE LEVELS IN WEIGHT LIFTERS] Skierska E, Ustupka J, Biczowa B, Lukaszewska J *Endokrynol Pol* 27: 159-65, Mar-Apr 76 (Pol) *DL/77FEB550

Vague J

[PROPORTION OF LOW INSULIN RESPONDERS TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL.)] Vague P, Ramahandridona G, Vague J *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77FEB87

Vague P

[PROPORTION OF LOW INSULIN RESPONDERS TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL.)] Vague P, Ramahandridona G, Vague J *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77FEB87

ADOLESCENCE; ADULT; AGE FACTORS; BLOOD SUGAR (metabolism); BODY WEIGHT; CHILD; DIABETES MELLITUS (diagnosis, familial & genetic); ENGLISH ABSTRACT; GLUCOSE (diagnostic use); HUMAN; INSULIN (blood); MIDDLE AGE; OBESITY IN DIABETES; TOLBUTAMIDE (diagnostic use).

Vaillie C

[PANCREATIC SECRETION IN RATS. A COMPARATIVE STUDY OF BASAL AND STIMULATED SECRETIONS IN ACUTE AND CHRONIC FISTULA CONDITIONS (AUTHORS TRANSL.)] Chariot J, Roze C, de La Tour J, Souchard M, Vaillie C, Debray C *Pathol Biol (Paris)* 24: 457-61, Sep 76 (Fre) DL/77FEB336

Valdez RO

ACETATE KINASE FROM VEILLONELLA ALCAESCENS. REGULATION OF ENZYME ACTIVITY BY SUCCINATE AND SUBSTRATES. Bowman CM, Valdez RO, Nishimura JS *J Biol Chem* 251: 3117-21, 25 May 76 (Eng) *DL/77FEB573

Vale W

NEUTENSIN AND SUBSTANCE-P: EFFECTS ON PLASMA INSULIN AND GLUCAGON LEVELS. Brown M, Villarreal J, Vale W *Metabolism* 25: 1459-61, Nov 76 (Eng) DL/77FEB298

EFFECTS OF NEUTENSIN AND SUBSTANCE P ON INSULIN AND GLUCAGON RELEASE BY THE PERFUSED DOG PANCREAS [PROCEEDINGS]. Patton G, Brown M, Dobbs R, Vale W, Unger RH *Metabolism* 25: 1465, Nov 76 (Eng) DL/77FEB300

STIMULATION OF PANCREATIC IMMUNOREACTIVE SOMATOSTATIN (IRS) RELEASE BY GLUCAGON [PROCEEDINGS]. Patton GS, Dobbs R, Orci L, Vale W, Unger RH *Metabolism* 25: 1499, Nov 76 (Eng) DL/77FEB308

SOMATOSTATIN ANALOGS WITH SELECTED BIOLOGIC ACTIVITIES. Brown M, Rivier J, Vale W *Metabolism* 25: 1501-3, Nov 76 (Eng) DL/77FEB309

CONTROL OF ANTERIOR PITUITARY HORMONE SECRETION. HYPOTHALAMIC PEPTIDES AND THEIR INTERACTIONS. PP. 180-95. Grant G, Vale W, Brazeau P, Rivier J, Monahan M, Gilon C, Amoss M, Rivier C, Ling N, Burgess R, Guillemin R *Ino Lederis K, Cooper KE, ed. Recent studies of hypothalamic function.* Basel, Karger, 1974. *WL* 312 165r 1973. (Eng) [39] *DL/77FEB588

Vales O

THE ULTRASTRUCTURE OF THE REACTION OF ARTERIAL WALLS TO CHOLESTEROL CRYSTALS IN ATHEROEMBOLISM. Warren BA, Vales O *Br J Exp Pathol* 57: 67-77, Feb 76 (Eng) *DL/77FEB518

Valsik JA

[ANNUAL MORTALITY RHYTHM OF DIABETES MELLITUS (AUTHORS TRANSL.)] Valsik JA, Stukovsky R *Bratisl Lek Listy* 65: 494-501, May 76 (Slo) DL/77FEB34

CZECHOSLOVAKIA; DIABETES MELLITUS (mortality); ENGLISH ABSTRACT; FEMALE; HUMAN; MALE; SEASONS; WEATHER.

Valverde I

HETEROGENEITY OF PLASMA IMMUNOREACTIVE GLUCAGON. Valverde I, Vilanueva ML *Metabolism* 25: 1393-5, Nov 76 (Eng) DL/77FEB281

ANIMAL; DIABETES MELLITUS (blood); DOGS; DUCKS; GLUCAGON (blood, immunology); HUMAN; HYPOGLYCEMIA (blood, chemically induced); IGG (analysis); KIDNEY FAILURE, CHRONIC (blood); KIDNEY (physiology); LIVER CIRRHOSIS (blood); MICE; MOLECULAR WEIGHT; PHLORHIZIN.

Van Baden M

[INTESTINAL BY-PASS FOR OBESITY (AUTHORS TRANSL.)] Van Baden M *Acta Chir Belg* 75: 269-93, May 76 (Dut) DL/77FEB454

BODY WEIGHT; CHOLESTEROL (blood); DIARRHEA (etiology); ENGLISH ABSTRACT; GOUT (complications); HUMAN; HYPERLIPIDEMIA (therapy); HYPERTENSION (complications); ILEUM (surgery); INTESTINAL ABSORPTION; INTESTINE, SMALL (surgery); JEJUNUM (surgery); LIPOPROTEINS (blood); METHODS; OBESITY IN DIABETES (therapy); OBESITY (therapy); POSTOPERATIVE COMPLICATIONS (poisoning); TIME FACTORS; TRIGLYCERIDES (blood).

van Beaumont W

EFFECT OF CHRONIC ADMINISTRATION OF NICOTINE ON METABOLIC RESPONSES AND INTESTINAL GLUCOSE TRANSPORT. PP. 127-36. Bhagat B, van Beaumont W, Ellert MS *Ino Singh JM, Lal H, ed. Drug addiction. Vol 40. New aspects of analytical and clinical toxicology.* New York, Stratton, 1974. *W3* IN917KC 1973d. (Eng) [15] *DL/77FEB593

van Berkel TJ

CYCLIC NUCLEOTIDE-, PYRUVATE- AND HORMONE-INDUCED CHANGES IN PYRUVATE KINASE ACTIVITY IN ISOLATED RAT HEPATOCYTES. van Berkel TJ, Kruijt JK, Koster JF, Hulsmann WC *Biochem Biophys Res Commun* 72: 917-25, 4 Oct 76 (Eng) DL/77FEB511

ANIMAL; DIBUTYRYL CYCLIC AMP (pharmacodynamics); FRUCTOSEPHOSPHATES (pharmacodynamics); GLUCAGON (pharmacodynamics); GLUCOSE (pharmacodynamics); GUANOSINE CYCLIC 3,5 MONOPHOSPHATE (analogs & derivatives, pharmacodynamics); HEXOSE DIPHOSPHATES (pharmacodynamics); IN VITRO; INSULIN (pharmacodynamics); ISOENZYMES (metabolism); KINETICS; LIVER (drug effects, enzymology); MAGNESIUM (pharmacodynamics); PYRUVATE KINASE (metabolism); PYRUVATES (pharmacodynamics); RATS.

van Bogaert LJ

GLUCOSE UPTAKE BY NORMAL HUMAN BREAST TISSUE IN ORGAN CULTURE. INFLUENCE OF INSULIN AND OTHER ADDITIVES. van Bogaert LJ *Cell Tissue Res* 171: 535-41, 1 Sep 76 (Eng) DL/77FEB40

Van Dam-Mieras MC

BREAST (metabolism); CLOSTRIDIOPEPTIDASE A; DNA (biosynthesis); ESTRADIOL; FEMALE; GLUCOSE (metabolism); HUMAN; IN VITRO; INSULIN (pharmacodynamics); ORGAN CULTURE.

Van Dam-Mieras MC

COMPARATIVE STUDIES OF LIPASE AND PHOSPHOLIPASE A2 ACTING ON SUBSTRATE MONOLAYERS. Verger R, Rietsch J, Van Dam-Mieras MC, de Haas GH *J Biol Chem* 251:3128-33, 25 May 76 (Eng) *DL/77FEB574

Van den Brande JL

PLASMA SOMATOMEDIN. CLINICAL OBSERVATIONS. PP. 271-85. Van den Brande JL. *Inf Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) [81] DL/77FEB186*

ADOLESCENCE; ADULT; AGE DETERMINATION BY SKELETON; AGE FACTORS; ANIMAL; BODY HEIGHT; BODY WEIGHT; CARILAGE (drug effects); CHILD; CHILD, PRESCHOOL; FEMALE; HORMONES (physiology); HUMAN; HYDROCORTISONE (blood); HYDROXYPROLINE (urine); HYPOPHYSITARISM (blood); INFANT; INFANT, NEWBORN; INSULIN (blood); MALE; METHODS; MONOGRAPH (mortality); PSYCHOSOCIAL DEPRIVATION; REVIEW; SOMATOMEDIN (blood, pharmacodynamics); SOMATOTROPIN (diagnostic use).

van der Woude FJ

[FATTY LIVER IN A HOSPITAL POPULATION, 1970-1974] Haagsma B, Marck K, van der Woude FJ *Ned Tijdschr Geneesk* 120: 1625-30, 25 Sep 76 (Dut) DL/77FEB328

van Heyningen R

NEUTRAL PROTEINASE ACTIVITY IN THE HUMAN LENS. Trayhurn P, van Heyningen R *Exp Eye Res* 22: 251-7, Mar 76 (Eng) *DL/77FEB553

Van Obberghen E

CELL SURFACE RECEPTORS FOR INSULIN AND HUMAN GROWTH HORMONE. EFFECT OF MICROTUBULE AND MICROFILAMENT MODIFIERS. Van Obberghen E, De Meyts P, Roth J *J Biol Chem* 251: 6844-51, 10 Nov 76 (Eng) DL/77FEB161

BINDING, COMPETITIVE; CELLS, CULTURED; CYTOCHALASIN B (pharmacodynamics); CYTOCHALASINS (pharmacodynamics); HUMAN; INSULIN (metabolism); KINETICS; LYMPHOCYTES (metabolism); MICROTUBULES (metabolism); RECEPTORS, HORMONE (drug effects, metabolism); RECEPTORS, INSULIN (drug effects, metabolism); SOMATOTROPIN (metabolism).

CALCIUM-ANTAGONISTS AND ISLET FUNCTION. VI. EFFECTS OF BARIUM. Somers G, Devis G, van Obberghen E, Malaisse WJ *Pfluegers Arch* 385: 21-8, 3 Sep 76 (Eng) DL/77FEB339

Vanderheyden I

PLASMA CONCENTRATIONS OF UNCONJUGATED ESTRONE, ESTRADIOL-17BETA AND ESTRIOL, AND HCS THROUGHOUT PREGNANCY IN DIABETICS AND GESTATIONAL DIABETICS. De Hertogh R, Thomas K, Hoet JJ, Vanderheyden I *Diabetologia* 12: 455-61, Oct 76 (Eng) DL/77FEB114

Vanhove A

[SUBCELLULAR LOCALIZATION OF RAT ADIPOCYTE LIPOPROTEIN LIPASE] Wolf C, Vanhove A, Brevet M, Etienne J, Berezziat G, Polonovski J *C R Soc Biol (Paris)* 169: 1145-9, 1975 (Fre) *DL/77FEB528

Vardi J

WEIGHT LOSS IN PATIENTS TREATED LONG-TERM WITH LEVODOPA. METABOLIC ASPECTS. Vardi J, Oberman Z, Rabey I, Streifler M, Ayalon D, Herzberg M *J Neural Sci* 30: 33-40, Nov 76 (Eng) DL/77FEB201

AGE FACTORS; AGED; BODY WEIGHT (drug effects); FATTY ACIDS (metabolism); GLUCOSE (metabolism); HUMAN; HYDROCORTISONE (metabolism); INSULIN (metabolism); LEVODOPA (pharmacodynamics, therapeutic use); LONG TERM CARE; MIDDLE AGE; PARKINSONISM (drug therapy); SOMATOTROPIN (metabolism).

Vargas I

ADRENAL AND LIVER PARTICIPATION IN THE RATS POST-STRESS DIABETIC RESPONSE. Vargas I, Kawada ME *Horm Metab Res* 8: 383-8, Sep 76 (Eng) DL/77FEB144

ADRENAL GLANDS (drug effects, physiopathology); ADRENALCTOMY; ANIMAL; BLOOD PROTEINS (metabolism); BLOOD SUGAR (metabolism); CHLORPROMAZINE (pharmacodynamics); DIABETES MELLITUS (etiology, physiopathology); DISEASE MODELS, ANIMAL; GLYCOSURIA; HYPERGLYCEMIA (blood); LIVER (drug effects, physiopathology); MALE; PANCREAS; CTOMY; RATS; STRESS (complications, physiopathology); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Varma MM

HUMAN GROWTH HORMONE CHANGES WITH AGE. PP. 261-70. Bazzarre TL, Johanson AJ, Huseman CA, Varma MM, Blizzard RM *Inf Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB182*

Varma SD

INHIBITION OF LENS ALDOSE REDUCTASE BY FLAVONOIDS—THEIR POSSIBLE ROLE IN THE PREVENTION OF DIABETIC CATARACTS. Varma SD, Kinoshita JH *Biochem Pharmacol* 25: 2505-13, 15 NOV 76 (Eng) DL/77FEB514

ALCOHOL OXIDOREDUCTASES (antagonists & inhibitors); ALDOSE REDUCTASE (antagonists & inhibitors); ANIMAL; BIOFLAVONOIDS (pharmacodynamics, therapeutic use); CATARACT (enzymology, prevention & control); DIABETIC RETINOPATHY (enzymology, prevention & control); DISEASE MODELS, ANIMAL; KINETICS; LENS, CRYSTALLINE (enzymology); RATS; STRUCTURE-ACTIVITY RELATIONSHIP.

Vasdev SC

METABOLISM OF ERUCIC ACID IN THE ISOLATED PERFUSED RAT HEART. Vasdev SC, Kako KJ *Biochim Biophys Acta* 431: 22-32, 22 Apr 76 (Eng) *DL/77FEB523

ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT, ACTIVE; CHOLESTEROL ESTERS (biosynthesis); DIGLYCERIDES (biosynthesis); ERUCIC ACIDS (metabolism); FATTY ACIDS (biosynthesis); FATTY ACIDS, UNSATURATED (metabolism); IN VITRO; KINETICS; MYOCARDIUM (metabolism); PALMITIC ACIDS (metabolism); PERFUSION; PHOSPHOLIPIDS (biosynthesis); RATS; TRIGLYCERIDES (biosynthesis).

Vashkinel VK

[ROLE OF THE THROMBOCYTES IN CHANGES IN THE HEMOSTATIC SYSTEM IN DIABETES MELLITUS] Petrov MN, Gavrisheva NA, Filatova AM, Tsikarishvili NV, Vashkinel VK *Klin Med (Mosk)* 54: 119-22, Jul 76 (Rus) DL/77FEB229

Vasileva LE

[ANTAGONISM IN THE ACTION OF HYDROCORTISONE AND INSULIN IN VIVO ON ENZYMES OF PYRUVATE AND MALATE METABOLISM IN ADIPOSE TISSUE] Ilin VS, Vasileva LE, Tokhadze OG *Biokhimiia* 41: 1646-50, Sep 76 (Rus) DL/77FEB12

Vasilevskaia LV

[FUNCTIONAL ORGANIZATION OF THE HYPOTHALAMUS IN REGULATION OF THE HYPOPHYSAL-ADRENOCORTICAL SYSTEM] Filaretov AA, Vasilevskaia LV *Dokl Akad Nauk SSSR* 227: 1018-20, 1976 (Rus) *DL/77FEB546

Velasco CA

ELEVATED KIDNEY GLUCOSYLTRANSFERASE ACTIVITY IN GENETIC PRE-DIABETIC MICE. Reddi AS, Oppermann W, Reddy MP, Velasco CA, Camerini-Davalos RA *Experientia* 32: 1237-8, 15 Oct 76 (Eng) DL/77FEB75

Verani M

MONCKEBERGS ARTERIOSCLEROSIS REVISITED: OR SILVER VESSELS AMONG THE OLD. Moskowitz M, Verani M *J Can Assoc Radiol* 27: 200-2, Sep 76 (Eng) DL/77FEB162

Vergara Rodriguez J

[RELATIONSHIPS BETWEEN THYROTROPIN, GROWTH HORMONE AND INSULIN IN HYPOTHYROIDISM] Vergara Rodriguez J, De Los Monteros Mena AE, Chavarria Bonequi C *Bol Med Hosp Infant Mex* 33: 1021-31, Sep-Oct 76 (Spa) DL/77FEB1

ADOLESCENCE; CHILD; ENGLISH ABSTRACT; HUMAN; HYPOTHYROIDISM (drug therapy); IMMUNOASSAY; INSULIN (biosynthesis); PANCREAS (drug effects); SOMATOTROPIN (analysis); STIMULATION, CHEMICAL; THYROID GLAND (physiopathology); THYROTROPIN (administration & dosage, blood).

Verger R

COMPARATIVE STUDIES OF LIPASE AND PHOSPHOLIPASE A2 ACTING ON SUBSTRATE MONOLAYERS. Verger R, Rietsch J, Van Dam-Mieras MC, de Haas GH *J Biol Chem* 251: 3128-33, 25 May 76 (Eng) *DL/77FEB574

COMPARATIVE STUDY; FATTY ACIDS (metabolism); LIPASE (metabolism); MEMBRANES, ARTIFICIAL; PANCREAS (enzymology); PHOSPHATIDYL CHOLINE (metabolism); PHOSPHATIDYL ETHANOLAMINE (metabolism); PHOSPHATIDYL GLYCEROLS (metabolism); PHOSPHOLIPASE (metabolism); PHOSPHOLIPIDS (metabolism); SURFACE TENSION.

Verma SP

CONCAVALIN A STIMULATION MODIFIES THE LIPID AND PROTEIN STRUCTURE OR RABBIT THYMOCYTE PLASMA MEMBRANES. A LASER RAMAN STUDY. Schmidt-Ullrich R, Verma SP, Wallach DF *Biochim Biophys Acta* 426: 477-88, 19 Mar 76 (Eng) *DL/77FEB519

Vertes L

DIABETES MELLITUS AND OSTEOPOROSIS. Forgacs S, Rossinger A, Vertes L *Endokrinologie* 67: 343-50, 1976 (Eng) DL/77FEB69

Vesselinovitch D

ABNORMALITIES OF THE ARTERIAL WALL AND ITS METABOLISM IN ATHEROGENESIS. Wissler RW, Vesselinovitch D, Getz GS *Prog Cardiovasc Dis* 18: 341-69, Mar-Apr 76 (Eng) *DL/77FEB631

Vignais PV

MOLECULAR AND PHYSIOLOGICAL ASPECTS OF ADENINE NUCLEOTIDE TRANSPORT IN MITOCHONDRIA. Vignais PV *Biochim Biophys Acta* 456: 1-38, 30 Apr 76 (Eng) [188] *DL/77FEB524

ADENINE NUCLEOTIDE TRANSLOCASE (metabolism); ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE MONOPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS (analysis); ATRACTYLOSIDE (pharmacodynamics); BINDING SITES; BIOLOGICAL TRANSPORT, ACTIVE; CARBONYL CYANIDE P-TRIFLUOROMETHOXY-PHENYLHYDRAZONE (pharmacodynamics); CELL DIVISION; ETHYLMALIMIDE (pharmacodynamics); FATTY ACIDS (pharmacodynamics); KINETICS; MATHEMATICS; MEMBRANES (metabolism); MITOCHONDRIA (drug effects, metabolism); MITOCHONDRIA, MUSCLE (metabolism); MODELS, BIOLOGICAL; MOLECULAR MODELS; NUCLEOTIDYLTRANSFERASES (metabolism); OLIGOMYCIN (pharmacodynamics); REVIEW; THYROXINE (pharmacodynamics).

Vikrot O

INFLUENCE OF FAT INGESTION ON LECITHIN:CHOLESTEROL ACYL TRANSFER RATE IN PLASMA OF NORMAL PERSONS. Wallentin L, Vikrot O *Scand J Clin Lab Invest* 36: 473-9, Sep 76 (Eng) DL/77FEB392

Villanueva ML

HETEROGENEITY OF PLASMA IMMUNOREACTIVE GLUCAGON. Valverde I, Villanueva ML *Metabolism* 25: 1393-5, Nov 76 (Eng) DL/77FEB281

Villarreal J

NEUROTENSIN AND SUBSTANCE-P: EFFECTS ON PLASMA INSULIN AND GLUCAGON LEVELS. Brown M, Villarreal J, Vale W *Metabolism* 25: 1459-61, Nov 76 (Eng) DL/77FEB298

Vinik AI

KINETICS OF INSULIN SECRETION IN CHRONIC PANCREATITIS AND MILD MATURITY ONSET DIABETES. (EVIDENCE FOR GUT HORMONE ACTION BEYOND GLUCORECEPTOR AND CYCLIC ADENOSINE MONOPHOSPHATE MEDIATED INSULIN RELEASE). Botha JL, Vinik AI, Blake KC, Jackson WP *Eur J Clin Invest* 6: 365-72, 10 Sep 76 (Eng) DL/77FEB72

Vinogradov VV

[HORMONAL AND VITAMIN REGULATION OF GLUCOSE-6-PHOSPHATASES ACTIVITY IN THE LIVER] Vinogradov VV, Mandrik KA, Ostrovskii IuM *Ukr Biokhim Zh* 48: 421-5, Jul-Aug 76 (Rus) DL/77FEB417

ACUTE DISEASE; ADRENAL GLAND. HYPERFUNCTION (enzymology); ADRENAL GLAND HYPOFUNCTION (enzymology); ADRENALECTOMY; ANIMAL; CHRONIC DISEASE; ENGLISH ABSTRACT; GLUCOSEPHOSPHATASE (metabolism); INSULIN (metabolism); LIVER (enzymology); MALE; OXYTHIAMINE (pharmacodynamics); RATS; STRESS (enzymology); THIAMINE (pharmacodynamics).

Viratchai C

SUBACUTE ENCEPHALOMENINGITIS STRICTLY INVOLVING THE BRAIN STEM AND DIABETES MELLITUS. Shuangshoti S, Viratchai C, Sreesai M *J Med Assoc Thai* 59: 464-9, Oct 76 (Eng) DL/77FEB198

Virgilio P

INSULIN SECRETION IN MIGRAINE: INFLUENCE ON THE BLOOD LEVELS OF TRYPTOPHAN. Poloni M, Nappi G, Bono G, Roggi C, Arpesella M, Virgilio P *Monogr Neural Sci* 3: 67-70, 1976 (Eng) DL/77FEB322

Vitale JJ

AUGMENTATION OF ETHANOL ABSORPTION BY MONO- AND DISACCHARIDES. Broitman SA, Gottlieb LS, Vitale JJ *Gastroenterology* 70: 1101-7, Jun 76 (Eng) *DL/77FEB557

Vitolinia SP

[CURRENT STATUS OF THE PROBLEM OF SECURING THE ENERGY REQUIREMENTS OF A PATIENT BY THE PARENTERAL ROUTE] Kremer IuN, Vitolinia SP *Vopr Pitani* 7: 16, Sep-Oct 76 (Rus) [101] DL/77FEB427

Vladimirov IuA

[LETTER: EFFECT OF TEMPERATURE ON THE STRUCTURAL STATE OF LIPIDS IN MITOCHONDRIAL MEMBRANES] Puchkov EO, Putvinskii AV, Roshchupkin DI, Vladimirov IuA *Biofizika* 21: 387-8, Mar-Apr 76 (Rus) *DL/77FEB525

Vladutiu AO

BISALBUMINEMIA AND DIABETES [LETTER] Vladutiu AO *JAMA* 236: 2393, 22 Nov 76 (Eng) DL/77FEB220

DIABETES MELLITUS (blood, complications, familial & genetic); ELECTROPHORESIS; HUMAN; SERUM ALBUMIN (analysis).

Vodovozov AM

[THE CENTRAL VITREO-RETINAL FIBROBLASTIC (EDEMATOUS-FIBROBLASTIC) SYNDROME (AUTHORS TRANSL)] Vodovozov AM *Klin Monatsbl Augenheilkd* 169: 212-25, Aug 76 (Ger) DL/77FEB227

ADHESIONS (etiology); AGED; ARTERIOSCLEROSIS (complications); CASE REPORT; CATARACT EXTRACTION; DIABETIC RETINOPATHY (complications); ENGLISH ABSTRACT; FEMALE; FUNDUS OCULI; HUMAN; PAPILLEDEMA (etiology); POSTOPERATIVE COMPLICATIONS (poisoning); REFRACTION, OCULAR; RETINAL DEGENERATION (etiology); RETINAL DETACHMENT (etiology); SYNDROME; UVEITIS (complications); VISION DISORDERS (etiology); VITREOUS BODY.

Vogel B

[BEHAVIOR OF KETONE BODIES, BLOOD LIPIDS AND OF VARIOUS LABORATORY-CHEMISTRY PARAMETERS DURING ISOCALORIC HIGH-CARBOHYDRATE AND HIGH-FAT REDUCING DIETS] Schubert WR, Vogel B, Schmullung RM, Eggstein M *Verh Dtsch Ges Inn Med* 81: 1397-1400, 1975 (Ger) *DL/77FEB684

Vogel M

[BEHAVIOUR OF SERUM CONCENTRATIONS OF GLUCOSE, IMMUNOREACTIVE INSULIN AND POTASSIUM IONS IN NEWBORNS AFTER LONG TERM OR CRASH TREATMENTS WITH PARTUSISTEN OR PARTUSISTEN IN COMBINATION WITH ISOPTIN (AUTHORS TRANSL)] Weidinger H, Mohr D, Haller K, Hiltmann WD, Vogel M *Z Geburtshilfe Perinatol* 180: 258-65, Aug 76 (Ger) DL/77FEB439

Vogel W

EFFECT ON MYOCARDIAL METABOLIC PATTERN OF LOCAL COMPLETE AND INCOMPLETE ISCHEMIA. Isselhard W, Geppert E, Menge M, Lauterjung KL, Vogel W, Witte J, Heugel E *Recent Adv Stud Cardiac Struct Metab* 7: 231-6, 1975 (Eng) *DL/77FEB664

Volikova SP

[RECONSTRUCTION OF A SINGLE CELLULAR POTASSIUM-SODIUM CHANNEL IN A LIPID BILAYER] Aleksandrov AA, Berestovskii GN, Volkova SP, Vostrikov IuA, Zherelova OM *Dokl Akad Nauk SSSR* 227: 723-6, 21 Mar 76 (Rus) *DL/77FEB545

Vostrikov IuA

[RECONSTRUCTION OF A SINGLE CELLULAR POTASSIUM-SODIUM CHANNEL IN A LIPID BILAYER] Aleksandrov AA, Berestovskii GN, Volkova SP, Vostrikov IuA, Zherelova OM *Dokl Akad Nauk SSSR* 227: 723-6, 21 Mar 76 (Rus) *DL/77FEB545

Vranic M

THE ROLE OF GLUCAGON-INSULIN INTERACTIONS IN CONTROL OF GLUCOSE TURNOVER AND ITS SIGNIFICANCE IN DIABETES. Vranic M, Ross G, Doi K, Lickley L *Metabolism* 25: 1375-80, Nov 76 (Eng) DL/77FEB277

ANIMAL; ARGININE (pharmacodynamics); DIABETES MELLITUS (metabolism); DOGS; GLUCAGON (immunology, metabolism, pharmacodynamics); GLUCOSE (metabolism); INSULIN (immunology, metabolism, pharmacodynamics); ISLANDS OF LANGERHANS (physiology); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics).

EXTRAPANCREATIC GLUCAGON IN THE DOG. Vranic M, Engerman R, Doi K, Morita S, Yip CC *Metabolism* 25: 1469-73, Nov 76 (Eng) DL/77FEB302

ALLOXAN DIABETES (blood); ANIMAL; BLOOD SUGAR (metabolism); DOGS; GLUCAGON (blood, isolation & purification); GLUCOSE (metabolism); INSULIN (pharmacodynamics); LIVER (metabolism); PANCREAS (physiology); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); STOMACH (analysis); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Vrouwenarts PE

[OBSTETRICAL BRACHIAL PLEXUS INJURIES. A STUDY ON PERINATAL MORBIDITY] Vrouwenarts PE, Arts JP, Kinderneurolog PF *Ned Tijdschr Geneesk* 120: 1666-72, 2 Oct 76 (Dut) DL/77FEB329

ASPHYXIA NEONATORUM (complications); BIRTH INJURIES (etiology); BIRTH WEIGHT; BRACHIAL PLEXUS (injuries); CASE REPORT; CESAREAN SECTION; ELECTROTHERAPY; ENGLISH ABSTRACT; EXERCISE THERAPY; EXTRACTION, OBSTETRICAL (adverse effects); FEMALE; HUMAN; INFANT, NEWBORN; MALE; ORTHOPEDIC FIXATION DEVICES; PARALYSIS (etiology); PREGNANCY IN DIABETES; PREGNANCY.

Wagle SR

STUDIES ON UREA SYNTHESIS, INSULIN DEGRADATION AND PHAGOCYTOSIS BY ISOLATED RAT KUPFFER CELLS. Wagle SR, Hofmann F, Decker K *Biochem Biophys Res Commun* 72: 448-55, 20 SEP 76 (Eng) DL/77FEB509

AMINO ACIDS (metabolism); ANIMAL; BICARBONATES (metabolism); FEMALE; INSULIN (metabolism); KUPFFER CELLS (metabolism, physiology); LIVER (metabolism); PHAGOCYTOSIS; RATS; UREA (biosynthesis).

Wagner HN Jr

EFFECTS OF MITOGENS ON GLUCOSE OXIDATION BY LYMPHOCYTES FROM NORMAL INDIVIDUALS AND PATIENTS WITH CHRONIC LYMPHOCYTIC LEUKEMIA. Tsan MF, Chen WY, Newman B, Wagner HN Jr, McIntyre PA *Johns Hopkins Med J* 138: 113-8, Apr 76 (Eng) *DL/77FEB603

Diabetes Literature—Author Index

Wahren J

Wahren J

EVANESCENT EFFECTS OF HYPO- AND HYPERGLUCAGONEMIA ON BLOOD GLUCOSE HOMEOSTASIS. Sherwin R, Wahren J, Felig P *Metabolism* 25: 1381-3, Nov 76 (Eng) DL/77FEB278

SOMATOSTATIN AND DIABETES: SUPPRESSION OF GLUCOSE ABSORPTION RATHER THAN STIMULATION OF GLUCOSE DISPOSAL. Felig P, Wahren J *Metabolism* 25: 1509-10, Nov 76 (Eng) DL/77FEB311

Wakisaka A

HLA AND JUVENILE DIABETES MELLITUS IN THE JAPANESE [LETTER]. Wakisaka A, Aizawa M, Matsuura N, Nakagawa S, Nakayama E *Lancet* 2: 970, 30 Oct 76 (Eng) DL/77FEB249

ADOLESCENCE; CHILD; DIABETES MELLITUS, JUVENILE (familial & genetic, immunology); HISTOCOMPATIBILITY ANTIGENS (isolation & purification); HL-A (isolation & purification); HUMAN; JAPAN; MONGOLOID RACE; PHENOTYPE.

Walc J

[EVALUATION OF GLIPIZIDE] Nowotna-Walcowa R, Szajewski JM, Walc J *Wiad Lek* 29: 1607-10, 15 Sep 76 (Pol) DL/77FEB431

Walker J

PREOPERATIVE RISK FACTORS AND AORTA-CORONARY BYPASS GRAFT PATENCY. Blumlein SL, Anderson AJ, Barboriak JJ, Rimm AA, Walker J, Flemma R *J Thorac Cardiovasc Surg* 72: 778-83, Nov 76 (Eng) DL/77FEB234

Wall BP

INSULIN LOSS IN PARENTERAL NUTRITION SYSTEMS. Oh TE, Dyer H, Wall BP, Hall RA, Jellet LB *Anaesth Intensive Care* 4: 342-6, Nov 76 (Eng) DL/77FEB484

Wallach DF

CONCAVALIN A STIMULATION MODIFIES THE LIPID AND PROTEIN STRUCTURE OF RABBIT THYMOCYTE PLASMA MEMBRANES. A LASER RAMAN STUDY. Schmidt-Ullrich R, Verma SP, Wallach DF *Biochim Biophys Acta* 426: 477-88, 19 Mar 76 (Eng) *DL/77FEB519

Walldius G

SERUM TRIGLYCERIDES AND FATTY ACID INCORPORATION INTO HUMAN ADIPOSE TISSUE (TIAT). THEIR RELATIONS WITH ADIPOSE TISSUE CHARACTERISTICS AND GLUCOSE TOLERANCE. Walldius G *Acta Med Scand* 200: 409-21, 1976 (Eng) DL/77FEB460

ADIPOSE TISSUE (metabolism); CHOLESTEROL (blood); FATTY ACIDS (metabolism); GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); HUMAN; HYPERLIPEMIA (metabolism); MALE; MIDDLE AGE; TRIGLYCERIDES (blood).

Wallentin L

INFLUENCE OF FAT INGESTION ON LECITHIN:CHOLESTEROL ACYL TRANSFER RATE IN PLASMA OF NORMAL PERSONS. Wallentin L, Vikrot O *Scand J Clin Lab Invest* 36: 473-9, Sep 76 (Eng) DL/77FEB392

ACYLTRANSFERASES (blood); ADMINISTRATION, ORAL; ADULT; CHOLESTEROL (blood); CHYLOMICRONS (blood, pharmacodynamics); DIETARY FATS (administration & dosage); EMULSIONS; FASTING; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; LECITHIN

ACYLTRANSFERASE (blood); LIPIDS (blood); LIPOPROTEINS, HDL (blood); MALE; TIME FACTORS; TRIGLYCERIDES (blood).

Wallis K

3-OXO ACID COENZYME A-TRANSFERASE IN NORMAL AND DIABETIC RAT MUSCLE. Fenselau A, Wallis K *Biochem J* 158: 509-12, 15 Aug 76 (Eng) DL/77FEB507

Walsh CH

THE MANAGEMENT OF DIABETES IN THE ELDERLY. Walsh CH *Compr Ther* 2: 38-46, Nov 76 (Eng) DL/77FEB51

AGED; DIABETES MELLITUS (complications, diet therapy, therapy); DIABETIC ANGIOPATHIES (complications); DIABETIC NEPHROPATHIES (complications); DIABETIC NEUROPATHIES (complications); GASTROINTESTINAL DISEASES (complications); HUMAN; HYPOGLYCEMIA (prevention & control); HYPOGLYCEMIC AGENTS (therapeutic use); METABOLIC DISEASES (prevention & control); MYCOSES (complications).

A STUDY OF PITUITARY FUNCTION IN PATIENTS WITH IDIOPATHIC HEMOCHROMATOSIS. Walsh CH, Wright AD, Williams JW, Holder G *J Clin Endocrinol Metab* 43: 866-72, Oct 76 (Eng) DL/77FEB169

AGED; FSH (blood); HEMOCHROMATOSIS (complications, physiopathology); HUMAN; HYDROCORTISONE (blood); HYPOGONADISM (complications, physiopathology); INSULIN (diagnostic use); KINETICS; LH (blood); LH-FSH RELEASING HORMONE (diagnostic use); MALE; MIDDLE AGE; PITUITARY GLAND (physiopathology); SOMATOTROPIN (blood); TESTOSTERONE (blood); THYROTROPIN RELEASING HORMONE (diagnostic use); THYROTROPIN (blood); TIME FACTORS.

Ward PE

STUDIES ON MEMBRANE-BOUND RENIN IN THE MOUSE AND RAT. Wilson CM, Ward PE, Erdos EG, Gecse A *Circ Res* 38: 95-8, Jun 76 (Eng) *DL/77FEB541

Ward WF

BEHAVIOR OF THE LYSOSOMAL SYSTEM DURING ORGAN PERFUSION. AN INQUIRY INTO THE MECHANISM OF HEPATIC PROTEOLYSIS. Mortimore GE, Ward WF *Front Biol* 45: 157-84, 1976 (Eng) [65] DL/77FEB80

Warren BA

THE ULTRASTRUCTURE OF THE REACTION OF ARTERIAL WALLS TO CHOLESTEROL CRYSTALS IN ATHEROEMBOLISM. Warren BA, Vales O *Br J Exp Pathol* 57: 67-77, Feb 76 (Eng) *DL/77FEB518

ANIMAL EXPERIMENTS (analysis); AORTA (ultrastructure); ARTERIES (analysis, ultrastructure); ARTERIOSCLEROSIS (pathology); ATHEROMA (pathology); BLOOD PLATELETS (ultrastructure); CEREBRAL ARTERIES (ultrastructure); CHOLESTEROL (analysis); EMBOLISM, FAT (pathology, therapy); FIBROBLASTS; HUMAN; MACROPHAGES (ultrastructure); MALE; MICROSCOPY, ELECTRON, SCANNING; RABBITS; RENAL ARTERY (ultrastructure).

Weber CJ

HYPERINSULINEMIA AND HYPERGLUCAGONEMIA FOLLOWING PANCREATIC ISLET TRANSPLANTATION IN DIABETIC RATS. Weber CJ, Hardy MA, Lerner RL, Felig P, Reemsma K *Diabetes* 25: 944-8, Oct 76 (Eng) DL/77FEB101

AGE FACTORS; ANIMAL; APPETITE REGULATION; BLOOD SUGAR (metabolism); BODY WEIGHT; DIABETES MELLITUS (blood, chemically induced); FASTING; GLUCAGON (blood); HYPERINSULINISM (etiology); ISLANDS OF LANGERHANS (innervation, transplantation); RATS; RATS, INBRED LEW;

STREPTOZOTOCIN; TRANSPLANTATION, ISOGENEIC; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Weber DJ

HIGH-PRESSURE LIQUID CHROMATOGRAPHIC ANALYSIS OF TOLBUTAMIDE IN SERUM. Weber DJ *J Pharm Sci* 65: 1502-5, OCT 76 (Eng) DL/77FEB209

CHROMATOGRAPHY, GAS; CHROMATOGRAPHY, HIGH SPEED LIQUID; HUMAN; MALE; METHODS; SPECTRUM ANALYSIS, MASS; TIME FACTORS; TOLBUTAMIDE (blood).

Weekes TE

INSULIN RESISTANCE AND RELATED ELECTRICAL ACTIVITY OF THE SMALL INTESTINE. Ruckebusch M, Weekes TE *Experientia* 32: 1163-5, 15 Sep 76 (Eng) DL/77FEB76

Weidinger H

[BEHAVIOUR OF SERUM CONCENTRATIONS OF GLUCOSE, IMMUNOREACTIVE INSULIN AND POTASSIUM IONS IN NEWBORNS AFTER LONG TERM OR CRASH TREATMENTS WITH PARTUSISTEN OR PARTUSISTEN IN COMBINATION WITH ISOPTIN (AUTHORS TRANSL)] Weidinger H, Mohr D, Haller K, Hiltmann WD, Vogel M *Z Geburtshilfe Perinatol* 180: 258-65, Aug 76 (Ger) DL/77FEB439

ACID-BASE IMBALANCE (chemically induced); ACIDOSIS (prevention & control); BLOOD SUGAR (metabolism); COMPARATIVE STUDY; ENGLISH ABSTRACT; ETHANOLAMINES (pharmacodynamics); FEMALE; FENOTEROL (administration & dosage, adverse effects, pharmacodynamics, therapeutic use); GLYCOLYSIS (drug effects); HUMAN; HYPOGLYCEMIA (prevention & control); INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (prevention & control); INSULIN (blood); IPROVERATRIL (adverse effects, pharmacodynamics, therapeutic use); LABOR, PREMATURE (prevention & control); LONG TERM CARE; MATERNAL-FETAL EXCHANGE; POTASSIUM (blood); PREGNANCY.

Weigl K

[FATTY ACID PATTERN OF LIPID FRACTIONS IN THE BLOOD. II. CONTROL PERSONS] Lohninger A, Weigl K, Riedl W, Heinkelmann W, Tolle W, Schlag G, Landauer B, Blumel G *Med Welt* 27: 923-6, 7 May 76 (Ger) *DL/77FEB609

Weinberg RS

ELEVATION OF INTRAOCULAR PRESSURE AFTER PARS PLANA VITRECTOMY. Weinberg RS, Peyman GA, Huamonte FU *Albrecht von Graefes Arch Klin Ophthalmol* 200: 157-61, 30 Aug 76 (Eng) DL/77FEB479

ADOLESCENCE; ADULT; AGED; CHILD; CHILD, PRESCHOOL; DIABETIC RETINOPATHY (surgery); GLAUCOMA (etiology); HUMAN; HYPHEMA; INFANT; INTRAOCULAR PRESSURE; IRIS; MIDDLE AGE; POSTOPERATIVE COMPLICATIONS (poisoning); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); VITREOUS BODY (surgery).

Weir GC

INSULIN, GLUCAGON, LIVER REGENERATION, AND DNA SYNTHESIS. Bucher NL, Weir GC *Metabolism* 25: 1423-5, Nov 76 (Eng) DL/77FEB288

GLUCAGON SECRETION FROM THE PERFUSED RAT PANCREAS FOLLOWING ACUTE AND CHRONIC STREPTOZOTOCIN. Weir GC, Atkins RF, Martin DB *Metabolism* 25: 1519-21, Nov 76 (Eng) DL/77FEB314

ANIMAL; ARGININE (diagnostic use); EPINEPHRINE (diagnostic use); GLUCAGON (secretion); ISLANDS OF LANGERHANS (drug effects, secretion); MALE; RATS; STREPTOZOTOCIN (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Weissel M

MYOCARDIAL SUBSTRATE LEVELS IN VIVO DURING HYPOXIA OF VARIOUS DEGREES AND DURATION. Weissel M, Turnheim K. *Recent Adv Stud Cardiac Struct Metab* 7: 275-82, 1975 (Eng) *DL/77FEB669

ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE MONOPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS (analysis); ANOXIA (metabolism, physiopathology); BLOOD PRESSURE; BLOOD; CATS; FEMALE; GLYCOGEN (metabolism); GLYCOLYSIS; HEART RATE; HEART (physiopathology); LACTATES (metabolism); MALE; MYOCARDIUM (metabolism); PHILIPPINES (physiology); PHOSPHOCREATINE (metabolism); PYRUVATES (metabolism).

Wells WW

INHIBITORY ACTION OF D-GALACTOSE ON PHAGOCYTE METABOLISM AND FUNCTION. Litchfield WJ, Wells WW. *Infect Immun* 13: 728-34, Mar 76 (Eng) *DL/77FEB564

Werner PL

IMMUNOREACTIVE GLUCAGON RESPONSES TO ARGININE IN THREE PANCREATOTOMIZED HUMANS. Palmer JP, Werner PL, Benson JW, Einsack JW. *Metabolism* 25: 1483-5, Nov 76 (Eng) DL/77FEB305

Wexler BC

EFFECTS OF HYPOPHYSECTOMY ON ALLOXAN-DIABETIC, ARTERIOSCLEROTIC, BREEDER VS. NON-ARTERIOSCLEROTIC, VIRGIN RATS. Wexler BC. *Atherosclerosis* 25: 13-30, Oct 76 (Eng) DL/77FEB515

ADRENAL CORTIX HORMONES (blood); ALANINE AMINOTRANSFERASE (blood); ALLOXAN DIABETES (blood, surgery); ANIMAL; AORTA (pathology); ARTERIOSCLEROSIS (blood, pathology, surgery); ASPARTATE AMINOTRANSFERASE (blood); BLOOD UREA NITROGEN; BODY WEIGHT; BREEDING; CHOLESTEROL (blood); COMPARATIVE STUDY; CREATINE KINASE (blood); DIABETIC ANGIOPATHIES (blood); FEMALE; HYPOPHYSECTOMY; LACTATE DEHYDROGENASE (blood); MALE; ORGAN WEIGHT; RATS; TRIGLYCERIDES (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Wheeler MP

INSULIN STIMULATION OF HEART GLYCOGEN SYNTHASE D PHOSPHATASE (PROTEIN PHOSPHATASE). Nuttali FO, Gannon MC, Corbett VA, Wheeler MP. *J Biol Chem* 251: 6724-9, 10 Nov 76 (Eng) DL/77FEB160

Whereat AF

EFFECTS OF CHANGES IN THE CONCENTRATIONS OF SUBSTRATE AND OXYGEN ON THE PERFUSED RABBIT HEART. Whereat AF, Nelson JB. *Recent Adv Stud Cardiac Struct Metab* 7: 211-7, 1975 (Eng) *DL/77FEB660

ANIMAL EXPERIMENTS (analysis); ANOXIA (metabolism); GLUCOSE (metabolism); HYDROXYBUTYRATES (metabolism); LACTATES (metabolism); MYOCARDIUM (metabolism); ORGANOPHOSPHORUS COMPOUNDS (metabolism); OXYGEN CONSUMPTION; PERFUSION; RABBITS.

White DW

VASCULITIS IN MATURITY-ONSET DIABETES MELLITUS [LETTER]. White DW. *JAMA* 236: 2171, 8 Nov 76 (Eng) DL/77FEB217

ADULT; AGE FACTORS; DIABETIC ANGIOPATHIES; HUMAN.

White GC

CANCER MORTALITY AND SACCHARIN CONSUMPTION IN DIABETICS. Armstrong B, Lea AJ, Adelstein AM, Donovan JW, White GC, Ruttle S. *Br J Prev Soc Med* 30: 151-7, Sep 76 (Eng) DL/77FEB19

Whitehouse FW

TWO MINUTES WITH DIABETES. Whitehouse FW. *Med Times* 104: 121, 127, Oct 76 (Eng) DL/77FEB56

BODY WEIGHT; CASE REPORT; FEMALE; HUMAN; INSULIN (therapeutic use); MIDDLE AGE; OBESITY IN DIABETES (diet therapy, drug therapy).

Whitmer JT

INHIBITION OF GLYCOLYSIS IN HEARTS DURING ISCHEMIC PERFUSION. Neely JR, Whitmer JT, Rovetto MJ. *Recent Adv Stud Cardiac Struct Metab* 7: 243-8, 1975 (Eng) *DL/77FEB665

Whitney JE

IONOPHORE A23187-INDUCED INSULIN SECRETION IN THE ISOLATED, PERFUSED DOG PANCREAS. Conaway HH, Griffey MA, Marks SR, Whitney JE. *Horm Metab Res* 8: 351-3, Sep 76 (Eng) DL/77FEB140

Whittaker VP

THE INCORPORATION OF RADIOACTIVE FATTY ACIDS AND OF RADIOACTIVE DERIVATIVES OF GLUCOSE INTO THE PHOSPHOLIPIDS OF SUBSYNAPTOSOMAL FRACTIONS OF CEREBRAL CORTEX. Baker R, Dowdall MJ, Whittaker VP. *Biochem J* 154: 65-75, 15 Jan 76 (Eng) *DL/77FEB715

Wider MD

ELEVATED GUT GLUCAGON-LIKE IMMUNOREACTIVE MATERIAL IN HUMAN AND EXPERIMENTAL DIABETES AND ITS SUPPRESSION BY SOMATOSTATIN. Wider MD, Matsuyama T, Dunbar JC, Foa PP. *Metabolism* 25: 1487-9, Nov 76 (Eng) DL/77FEB306

ANIMAL; DIABETES MELLITUS (blood); DOGS; GLUCAGON (blood, immunology, secretion); HUMAN; ILEUM (drug effects, secretion); IMMUNE SERUMS; PANCREAS (physiology); RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics).

Wiedemann E

ACUTE AND CHRONIC ESTROGEN EFFECTS UPON SERUM SOMATOMEDIN ACTIVITY, GROWTH HORMONE, AND PROLACTIN IN MAN. Wiedemann E, Schwartz E, Frantz AG. *J Clin Endocrinol Metab* 42: 942-52, May 76 (Eng) *DL/77FEB577

ADULT; CHRONIC DISEASE; CLINICAL RESEARCH; DERMATITIS (metabolism); ESTROGEN SUBSTANCES, CONJUGATED (pharmacodynamics); ETHINYL ESTRADIOL (pharmacodynamics); GOITER, EXOPHTHALMIC (metabolism); HALF-LIFE; HUMAN; IRTIS (metabolism); MALE; MIDDLE AGE; OSTEOPOROSIS (metabolism); PITUITARY GLAND (drug effects); PITUITARY GLAND, ANTERIOR (drug effects); PROLACTIN (secretion); SOMATOMEDIN (blood, metabolism); SOMATOTROPIN (secretion); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Wikstrom MK

CONFORMATIONAL CHANGES IN CYTOCHROME AA3 AND ATP SYNTHETASE OF THE MITOCHONDRIAL MEMBRANE AND THEIR ROLE IN MITOCHONDRIAL ENERGY TRANSDUCTION. Wikstrom MK, Saari HT. *Mol Cell Biochem* 11: 17-33, 26 Mar 76 (Eng) [70] *DL/77FEB612

ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANIMAL EXPERIMENTS (analysis); BINDING SITES; CALCIUM; CYTOCHROMES (metabolism); ELECTRON TRANSPORT; ENERGY TRANSFER; EGTA (pharmacodynamics); KINETICS; MEMBRANES (enzymology, ultrastructure); MITOCHONDRIA, LIVER (enzymology); MULTIENTZYME COMPLEXES (metabolism); OLIGOMYCIN (pharmacodynamics); OXYGEN CONSUMPTION; PHILIPPINES (physiology); PHOSPHOTRANSFERASES, ATP (metabolism); PROTEIN BINDING; PROTEIN CONFORMATION; RATS; REVIEW; THIOCYANATES; VALINOMYCIN (pharmacodynamics).

Wilik M

EFFECT OF PHYSICAL EXERCISE ON PLASMA CORTISOL AND GROWTH HORMONE LEVELS IN YOUNG WEIGHT LIFTERS. Lukaszewska J, Biczowa B, Bobiewicz D, Wilik M, Obuchowicz-Fidelus B. *Endokrynol Pol* 27: 149-57, Mar-Apr 76 (Pol) *DL/77FEB549

Wilkin GP

BIOCHEMICAL DISSECTION OF THE CEREBELLUM—FUNCTIONAL PROPERTIES OF THE GLOMERULUS PARTICLES. PP. 427-36. Wilson JE, Wilkin GP, Balazs R. In: *Berl S, et al., ed. Metabolic compartmentation and neurotransmission*. New York, Plenum Press, 1975. W3 N1355 1974m. (Eng) *DL/77FEB516

METABOLIC PROPERTIES OF A PURIFIED PREPARATION OF LARGE FRAGMENTS OF THE CEREBELLAR GLOMERULI: GLUCOSE METABOLISM AND AMINO ACID UPTAKE. Wilson JE, Wilkin GP, Balazs R. *J Neurochem* 26: 957-65, May 76 (Eng) *DL/77FEB600

Will S

STUDIES ON INSULIN ACTION. V. STRUCTURAL REQUIREMENTS OF PRIMERS FOR SUBSEQUENT ACCUMULATION OF D-GLUCOSE AT 0 DEGREES C IN INSULINIZED FROG MUSCLES. Ling GN, Will S. *Physiol Chem Phys* 8: 115-24, 1976 (Eng) DL/77FEB364

Williams JW

LUTEINIZING RELEASE HORMONE TESTS IN IMPOTENT DIABETIC MALES. Wright AD, London DR, Holder G, Williams JW, Rudd BT. *Diabetes* 25: 975-7, Oct 76 (Eng) DL/77FEB106

A STUDY OF PITUITARY FUNCTION IN PATIENTS WITH IDIOPATHIC HEMOCHROMATOSIS. Walsh CH, Wright AD, Williams JW, Holder G. *J Clin Endocrinol Metab* 43: 866-72, Oct 76 (Eng) DL/77FEB169

Williams LT

ADIPOCYTE BETA-ADRENERGIC RECEPTORS. IDENTIFICATION AND SUBCELLULAR LOCALIZATION BY (-)-[3H]DIHYDROALPRENOLOL BINDING. Williams LT, Jarett L, Lefkowitz RJ. *J Biol Chem* 251: 3096-104, 25 May 76 (Eng) *DL/77FEB572

ADENYL CYCLASE (metabolism); ADIPOSE TISSUE (metabolism); ALPRENOLOL (analogs & derivatives, metabolism); ANIMAL EXPERIMENTS (analysis); BINDING SITES; CELL MEMBRANE (metabolism); EPINEPHRINE (pharmacodynamics); FEMALE; ISOPROTERENOL (pharmacodynamics);

Williamson JR

KINETICS; MICROSOMES (metabolism); MITOCHONDRIA (metabolism); NOREPINEPHRINE (pharmacodynamics); PROPRANOLOL (pharmacodynamics); PROTEIN BINDING; RATS; RECEPTORS, ADRENERGIC; SUBCELLULAR FRACTIONS (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Williamson JR

MITOCHONDRIAL METABOLISM AND CELL REGULATION. PP. 79-107. Williamson JR *In* Packer L, Gomez-Puyou A, ed. *Mitochondria*. New York, Academic Press, 1976. QH 603.M5 M684 1975. (Eng) *DL/77FEB517

ADENOSINE DIPHOSPHATE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); ANIONS; BIOLOGICAL TRANSPORT, ACTIVE; GLUCONEOGENESIS; KREBS CYCLE; MEMBRANE POTENTIALS; MITOCHONDRIA (metabolism); MITOCHONDRIA, LIVER (metabolism); MODELS, BIOLOGICAL; MONOGRAPH (mortality); NAD (metabolism); OXIDATIVE PHOSPHORYLATION; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

COORDINATION OF CITRIC ACID CYCLE ACTIVITY WITH ELECTRON TRANSPORT FLUX. Williamson JR, Ford C, Illingworth J, Safer B *Circ Res* 38: 139-51, May 76 (Eng) *DL/77FEB538

ADENINE NUCLEOTIDES (physiology); ANIMAL EXPERIMENTS (analysis); CORONARY CIRCULATION; ELECTRON TRANSPORT; ENERGY METABOLISM; IN VITRO; KREBS CYCLE; MITOCHONDRIA, MUSCLE (metabolism); MYOCARDIUM (metabolism, ultrastructure); OXYGEN CONSUMPTION; PERFUSION; RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Wilmore DW

HORMONAL RESPONSES AND THEIR EFFECT ON METABOLISM. Wilmore DW *Surg Clin North Am* 56: 999-1018, Oct 76 (Eng) DL/77FEB407

ADOLESCENCE; ADULT; BODY TEMPERATURE REGULATION; BURNS (metabolism); CATECHOLAMINES (physiology); ENERGY METABOLISM; ENERGY TRANSFER; GLUCAGON (physiology); GLUCOCORTICOIDS (physiology); HOMEOSTASIS; HORMONES (physiology); HUMAN; HYPERGLYCEMIA (metabolism); INSULIN (physiology); MIDDLE AGE; NITROGEN (metabolism); OXYGEN CONSUMPTION; SOMATOTROPIN (physiology); STRESS (metabolism); WOUND INFECTION (metabolism).

IMPAIRED GLUCOSE FLOW IN BURNED PATIENTS WITH GRAM-NEGATIVE SEPSIS. Wilmore DW, Mason AD Jr, Pruitt BA Jr *Surg Gynecol Obstet* 143: 720-4, Nov 76 (Eng) DL/77FEB408

ADOLESCENCE; ADULT; AMINO ACIDS (blood); BLOOD SUGAR (analysis); BURNS (blood, complications); ENTEROBACTERIACEAE INFECTIONS (blood); GLUCOSE TOLERANCE TEST; HUMAN; KLEBSIELLA INFECTIONS (blood); MIDDLE AGE; PSEUDOMONAS INFECTIONS (blood); SEPTICEMIA (blood, complications).

Wilson CM

STUDIES ON MEMBRANE-BOUND RENIN IN THE MOUSE AND RAT. Wilson CM, Ward PE, Erdos EG, Geacze A *Circ Res* 38: 95-8, Jun 76 (Eng) *DL/77FEB541

ANIMAL EXPERIMENTS (analysis); DACTINOMYCIN (pharmacodynamics); FEMALE; FREEZING; KALLIKREIN (isolation & purification); KIDNEY CORTEX (enzymology); KIDNEY (enzymology); MALE; MEMBRANES (enzymology); MICE; MICROSOMES (enzymology); NANDROLONE (pharmacodynamics); RATS; RENIN (isolation &

purification); SPECIES SPECIFICITY; SUBMANDIBULAR GLAND (enzymology); TESTOSTERONE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Wilson JE

BIOCHEMICAL DISSECTION OF THE CEREBELLUM-FUNCTIONAL PROPERTIES OF THE GLOMERULAR PARTICLES. PP. 427-36. Wilson JE, Wilkin GP, Balazs R *In* Berl S, et al., ed. *Metabolic compartmentation and neurotransmission*. New York, Plenum Press, 1975. W3 N1355 1974m. (Eng) *DL/77FEB516

AMINO BUTYRIC ACIDS (metabolism); ANIMAL EXPERIMENTS (analysis); ASPARTIC ACID (metabolism); CARBON DIOXIDE (metabolism); CEREBELLUM (metabolism, ultrastructure); CHOLINE (pharmacodynamics); CYANIDES (pharmacodynamics); DEOXY SUGARS (metabolism); DEOXYGLUCOSE (metabolism, pharmacodynamics); DINITROPHENOLS (pharmacodynamics); GLUCOSE (metabolism); GLYCINE (metabolism); GABA (metabolism); KINETICS; LACTATES (metabolism); MONOGRAPH (mortality); RATS; SODIUM (pharmacodynamics); SYNAPSES (drug effects, metabolism).

METABOLIC PROPERTIES OF A PURIFIED PREPARATION OF LARGE FRAGMENTS OF THE CEREBELLAR GLOMERULI: GLUCOSE METABOLISM AND AMINO ACID UPTAKE. Wilson JE, Wilkin GP, Balazs R *J Neurochem* 26: 957-65, May 76 (Eng) *DL/77FEB600

AMINO ACIDS (metabolism); ANIMAL EXPERIMENTS (analysis); BINDING SITES; BIOLOGICAL TRANSPORT, ACTIVE; CARBON DIOXIDE (metabolism); CEREBELLUM (drug effects, metabolism); CYANIDES (pharmacodynamics); DEOXYGLUCOSE (metabolism, pharmacodynamics); DINITROPHENOLS (pharmacodynamics); GLUCOSE (metabolism); KINETICS; LACTATES (metabolism); RATS; SODIUM (pharmacodynamics); SUBCELLULAR FRACTIONS (metabolism).

Winegrad AI

DIABETIC POLYNEUROPATHY: THE IMPORTANCE OF INSULIN DEFICIENCY, HYPERGLYCEMIA AND ALTERATIONS IN MYOINOSITOL METABOLISM IN ITS PATHOGENESIS. Winegrad AI, Greene DA *N Engl J Med* 295: 1416-21, 16 Dec 76 (Eng) DL/77FEB326

ACUTE DISEASE; ALLOXAN DIABETES (drug therapy); ANIMAL; DEMYELINATION (pathology); DIABETIC NEUROPATHIES (etiology, metabolism, pathology); HUMAN; HYPERGLYCEMIA (complications, drug therapy); INOSITOL (analysis, metabolism); INSULIN (deficiency, pharmacodynamics, therapeutic use); NEURAL CONDUCTION (drug effects); PERIPHERAL NERVES (analysis); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Winkler HU

FIELD DESORPTION MASS SPECTRUM OF GLUCAGON. Winkler HU, Beuhler RJ, Friedman I *Biomed Mass Spectrom* 3: 201-6, Oct 76 (Eng) DL/77FEB15

AMINO ACID SEQUENCE; BINDING SITES; ELECTROMAGNETICS (methods); GLUCAGON (analysis); PROTEIN CONFORMATION; SPECTRUM ANALYSIS, MASS (methods).

Wissler RW

ABNORMALITIES OF THE ARTERIAL WALL AND ITS METABOLISM IN ATHEROGENESIS. Wissler RW, Vesselinovitch D, Getz GS *Prog Cardiovasc Dis* 18: 341-69, Mar-Apr 76 (Eng) *DL/77FEB631

ANIMAL EXPERIMENTS (analysis); ARTERIES (metabolism, pathology); ARTERIOSCLEROSIS (metabolism); ATHEROSCLEROSIS (metabolism, pathology); CALCINOSIS (metabolism); CELL MEMBRANE PERMEABILITY; CELL MOVEMENT; COLLAGEN (metabolism); ENDOTHELIUM (injuries, metabolism); HUMAN; ISCHEMIA (metabolism); LIPIDS (metabolism); LIPOPROTEINS, LDL (metabolism); MITOSIS; MUSCLE, SMOOTH (metabolism, pathology); OXYGEN CONSUMPTION; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); VASA VASORUM (metabolism).

Withington PG

THE INFLUENCE OF GLUCAGON UPON THE RESPONSES OF THE HEPATIC ARTERIAL VASCULATURE TO VASODILATOR AGENTS [PROCEEDINGS]. Richardson PD, Withington PG *Br J Pharmacol* 57: 473p, Jul 76 (Eng) DL/77FEB17

Witte J

EFFECT ON MYOCARDIAL METABOLIC PATTERN OF LOCAL COMPLETE AND INCOMPLETE ISCHEMIA. Iselhard W, Geppert E, Menge M, Lauterjung KL, Vogel W, Witte J, Heugel E *Recent Adv Stud Cardiac Struct Metab* 7: 231-6, 1975 (Eng) *DL/77FEB664

Withuhn W

[EARLY POSTNATAL OVERFEEDING AS AN ETIOPATHOGENETIC FACTOR IN ADULT OBESITY] Dörner G, Hagen N, Withuhn W *Acta Biol Med Ger* 35: 799-803, 1976 (Ger) DL/77FEB453

Włodarczyk J

[BLOOD CLOTTING AND FIBRINOLYTIC ACTIVITY AND PLATELET CHANGES IN CHRONIC PERIPHERAL ARTERIAL INSUFFICIENCY] Kaniak J, Kotschy M, Kurawska M, Włodarczyk J, Prastowski W *Pol Tyg Lek* 31: 1757-60, 11 Oct 76 (Pol) DL/77FEB350

Wohlfarth K

MEAN 24-HOUR GROWTH HORMONE AND TESTOSTERONE CONCENTRATIONS IN RELATION TO PUBERTAL GROWTH SPURT IN BOYS WITH NORMAL OR DELAYED PUBERTY. Butenandt O, Eder R, Wohlfarth K, Bidlingmaier F, Knorr D *Eur J Pediatr* 122: 85-92, 4 May 76 (Eng) *DL/77FEB551

Wolf C

[SUBCELLULAR LOCALIZATION OF RAT ADIPOCYTE LIPOPROTEIN LIPASE] Wolf C, Vanhove A, Breton M, Etienne J, Bereziat G, Polonovski J *C R Soc Biol (Paris)* 169: 1145-9, 1975 (Fre) *DL/77FEB528

ADIPOSE TISSUE (enzymology); CELL MEMBRANE (enzymology); CYTOCHROME C (metabolism); CYTOCHROME REDUCTASES (analysis); LIPOPROTEIN LIPASE (analysis); MICROSOMES (enzymology); NAD (metabolism); SUBCELLULAR FRACTIONS (enzymology).

Wolf E

[COMPARATIVE STUDIES ON THE ORAL GLUCOSE TOLERANCE USING 50 AND 100G OF GLUCOSE WITH SPECIAL REFERENCE TO VARIOUS LIPID-METABOLISM PARAMETERS] Meinel H, Wolf E *Z Aertl Fortbild (Jena)* 70: 943-6, 1 Sep 76 (Ger) DL/77FEB437

Wollenberger A

INCORPORATION OF AMINO ACID INTO TOTAL AND CONTRACTILE PROTEIN OF TISSUE SLICES OF THE HYPERTROPHIC RAT HEART. Wollenberger A, Onnen K *Recent Adv Stud Cardiac Struct Metab* 1: 186-9, 1972 (Eng) *DL/77FEB638

AMINO ACIDS (metabolism); ANIMAL EXPERIMENTS (analysis); DISEASE MODELS, ANIMAL; IN VITRO; MUSCLE PROTEINS (biosynthesis); MYOCARDIAL CONTRACTION; MYOCARDIUM (metabolism); RATS; TRANSLATION, GENETIC.

RESPONSES OF THE HEART MITOCHONDRIA TO CHRONIC CARDIAC OVERLOAD AND PHYSICAL EXERCISE. Wollenberger A *Recent Adv Stud Cardiac Struct Metab* 1: 213-22, 1972 (Eng) *DL/77FEB640

ANIMAL EXPERIMENTS (analysis); DISEASE MODELS, ANIMAL; DOGS; EXERTION; HEART ENLARGEMENT (metabolism); HEART FAILURE, CONGESTIVE (metabolism); HEART VENTRICLE (metabolism); MICROSCOPY, ELECTRON; MITOCHONDRIA, MUSCLE (metabolism); MUSCLE PROTEINS (metabolism); MYOCARDIUM (metabolism, ultrastructure); OXIDATIVE PHOSPHORYLATION; SWIMMING.

CYCLIC AMP LEVELS IN THE ACUTELY ISCHEMIC MYOCARDIUM OF THE DOG AND GUINEA PIG. Wollenberger A, Krause G, Heier G *Recent Adv Stud Cardiac Struct Metab* 1: 27-9, 1972 (Eng) *DL/77FEB642

ACUTE DISEASE; ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL EXPERIMENTS (analysis); CORONARY DISEASE (metabolism); DISEASE MODELS, ANIMAL; DOGS; GUINEA PIGS; MYOCARDIUM (metabolism); SPECIES SPECIFICITY; TIME FACTORS.

Wood SP

THE RELATION OF STRUCTURE TO STORAGE AND RECEPTOR BINDING OF GLUCAGON. Blundell TL, Dockerill S, Sasaki K, Tickle JJ, Wood SP *Metabolism* 25: 1331-6, Nov 76 (Eng) DL/77FEB268

Woodard CJ

HOLOCATALYTIC STATE OF ADENYLATE CYCLASE IN TURKEY ERYTHROCYTE MEMBRANES: FORMATION WITH GUANYLYLMIDODIPHOSPHATE PLUS ISOPROTERENOL WITHOUT EFFECT ON AFFINITY OF BETA-RECEPTOR. Spiegel AM, Brown EM, Fedak SA, Woodard CJ, Aurbach GD *J Cyclic Nucleotide Res* 2: 47-56, 1976 (Eng) *DL/77FEB583

Woodtli W

HISTOLOGIC CHARACTERISTICS OF INSULINOMAS AND GASTRINOMAS. VALUE OF ARGYNOHILIA, METACHROMASIA, IMMUNOHISTOLOGY, AND ELECTRON MICROSCOPY FOR THE IDENTIFICATION OF GASTROINTESTINAL AND PANCREATIC ENDOCRINE CELLS AND THEIR TUMORS. Woodtli W, Hedinger C *Virchows Arch [Pathol Anat]* 371: 331-50, 7 Oct 76 (Eng) DL/77FEB425

DUODENUM (cytology); GASTRIC MUCOSA (cytology); GASTRIN; HUMAN; IMMUNOLOGIC TECHNIQS; INSULIN; INTESTINAL MUCOSA (cytology); ISLET CELL TUMOR (pathology); MICROSCOPY, ELECTRON; STAINS AND STAINING; ZOLLINGER-ELLISON SYNDROME (pathology).

Woosmann H

[CORRELATIONS BETWEEN HIPPOCAMPUS FUNCTION AND STRESSED LEARNING AND THEIR EFFECT ON CEREBRO-VISCERAL REGULATION PROCESSES] Hecht K, Hai NV, Hecht T, Moritz V, Woosmann H *Acta Biol Med Ger* 35: 35-45, 1976 (Ger) DL/77FEB449

Wormsley KG

EXOCRINE PANCREATIC FUNCTION IN JUVENILE-ONSET DIABETES MELLITUS. Friar BM, Saunders JH, Wormsley KG, Bouchier IA *Gut* 17: 685-91, Sep 76 (Eng) DL/77FEB133

Wright AD

LUTEINIZING RELEASE HORMONE TESTS IN IMPOTENT DIABETIC MALES. Wright AD, London DR, Holder G, Williams JW, Rudd BT *Diabetes* 25: 975-7, Oct 76 (Eng) DL/77FEB106

ADULT; DIABETES MELLITUS (blood, complications); ESTRADIOL (blood); FSH (blood); GONADOTROPINS, PITUITARY (blood); HUMAN; IMPOTENCE (blood, complications, etiology); LH (blood); LH-FSH RELEASING HORMONE (diagnostic use); MALE; MIDDLE AGE; SEX HORMONE BINDING GLOBULIN (blood); SEX HORMONES (blood); TESTOSTERONE (blood); TIME FACTORS.

A STUDY OF PITUITARY FUNCTION IN PATIENTS WITH IDIOPATHIC HEMOCHROMATOSIS. Walsh CH, Wright AD, Williams JW, Holder G *J Clin Endocrinol Metab* 43: 866-72, Oct 76 (Eng) DL/77FEB169

Wright DE

SEMISYNTHETIC GLUCAGON DERIVATIVES FOR STRUCTURE-FUNCTION STUDIES. Hruby VJ, Wright DE, Lin MC, Rodbell M *Metabolism* 25: 1323-5, Nov 76 (Eng) DL/77FEB266

Wuehrmann AH

A RADIOGRAPHIC STUDY OF NUTRIENT CANALS. Patel JR, Wuehrmann AH *Oral Surg* 42: 693-701, Nov 76 (Eng) DL/77FEB332

Wunderlich P

[LACTIC ACIDOSIS IN DIABETES MELLITUS (AUTHORS TRANSL.)] Buess HJ, Mihatsch MJ, Wunderlich P, Berger W *Praxis* 65: 406-13, 6 Apr 76 (Ger) DL/77FEB353

Wylie CM

COMPARISON OF HOSPITAL ADMISSIONS FOR CEREBROVASCULAR DISEASE IN MICHIGAN AND NORTH CAROLINA. Wylie CM, Carpenter JO *J Community Health* 2: 21-30, Fall 76 (Eng) DL/77FEB170

AGED; CEREBROVASCULAR DISORDERS (complications, diagnosis, mortality); COMPARATIVE STUDY; DIABETES MELLITUS (complications); HOSPITALIZATION; HUMAN; HYPERTENSION (complications); MICHIGAN; MIDDLE AGE; NORTH CAROLINA; RESPIRATORY TRACT INFECTIONS (complications).

Wynn V

THE METABOLIC FATE OF PLASMA LIPOPROTEINS IN NORMAL SUBJECTS AND IN PATIENTS WITH INSULIN RESISTANCE AND ENDOGENOUS HYPERTRIGLYCERIDAEMIA. Kissebah AH, Alfarsi S, Adams PW, Wynn V *Diabetologia* 12: 501-9, Oct 76 (Eng) DL/77FEB119

Xypolita A

ADENYLATE CYCLASE ACTIVITY IN HUMAN TISSUES. Constantopoulos A, Xypolita A, Matsaniotis N *Biol Neonate* 29: 294-8, 1976 (Eng) DL/77FEB14

Yamada R

[FUNCTION TEST OF THE HUMAN FETAL PANCREAS (AUTHORS TRANSL.)] Nakai T, Yamada R *Jpn J Clin Pathol* 24: 673-7, Aug 76 (Jpn) DL/77FEB221

Yamasaki Y

INDUCTION OF ORNITHINE DECARBOXYLASE IN CULTURED MOUSE L CELLS. I. EFFECTS OF CELLULAR GROWTH, HORMONES, AND ACTINOMYCIN D. Yamasaki Y, Ichihara A *J Biochem (Tokyo)* 80: 557-62, Sep 76 (Eng) DL/77FEB157

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); CARBOXY-LYASES

(biosynthesis); CYCLOHEXIMIDE (pharmacodynamics); DACTINOMYCIN (pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG; ENZYME INDUCTION (drug effects); INSULIN (pharmacodynamics); L CELLS (enzymology, growth & development); MICE; ORNITHINE DECARBOXYLASE (biosynthesis).

Yang SH

STUDIES ON THE NATURE OF PLASMA GROWTH HORMONE. PP. 75-83. Ellis S, Grindland RE, Reilly TJ, Yang SH *In0 Pecile A, Muller EE, ed. Growth hormone and related peptides. Amsterdam, Excerpta Medica, 1976. W3 EX89 no.381 1975. (Eng) DL/77FEB191*

Yasugi H

CHANGES IN CARBOHYDRATE METABOLISM AND ENDOCRINE FUNCTION OF REMNANT PANCREAS AFTER MAJOR PANCREATIC RESECTION. Yasugi H, Mizumoto R, Sakurai H, Honjo I *Am J Surg* 132: 577-80, Nov 76 (Eng) DL/77FEB477

ANIMAL; CARBOHYDRATES (metabolism); DIABETES MELLITUS (etiology); DOGS; FEMALE; GLUCOSE (metabolism); INSULIN (blood); MALE; PANCREAS (metabolism); PANCREATCTOMY (adverse effects).

Yasuhara T

[IN VITRO ASSAY FOR ACTH-RELEASING ACTIVITY USING ACTH RADIOIMMUNOASSAY: ACTH RELEASING ACTIVITIES BY VARIOUS DRUGS (AUTHORS TRANSL.)] Hashimoto K, Takahara J, Hosogi H, Ofuji N, Yasuhara T *Folia Endocrinol Jpn* 52: 114-24, 20 Feb 76 (Jpn) DL/77FEB82

Yates JC

ENERGY STATE AND ULTRASTRUCTURE OF THE SUBSTRATE-DEPLETED HEART. Dhalla NS, Yates JC, Olson RE *Recent Adv Stud Cardiac Struct Metab* 1: 81-94, 1972 (Eng) *DL/77FEB654

Yip CC

EXTRAPANCREATIC GLUCAGON IN THE DOG. Vranic M, Engerman R, Doi K, Morita S, Yip CC *Metabolism* 25: 1469-73, Nov 76 (Eng) DL/77FEB302

Ylikahri RH

LETTER: EFFECT OF ALCOHOL ON ANTERIOR-PITUITARY SECRETION OF TROPHIC HORMONES. Ylikahri RH, Huttunen MO, Har-konen M *Lancet* 1: 1353, 19 Jun 76 (Eng) *DL/77FEB608

ALCOHOL, ETHYL (pharmacodynamics); ALCOHOLIC INTOXICATION (physiopathology); HUMAN; MALE; PITUITARY GLAND (secretion); PITUITARY GLAND, ANTERIOR (secretion); PROLACTIN (secretion); THYROTROPIN RELEASING HORMONE (pharmacodynamics).

Yoshida M

THYROTOXIC PERIODIC PARALYSIS: A PECULIAR CASE WITH UNUSUAL DYSTONIC BEHAVIOR AND VARIABLE RELATIONS OF PARALYSIS TO SERUM POTASSIUM LEVELS. Kusakabe T, Yoshida M, Nishikawa M *J Clin Endocrinol Metab* 43: 730-40, Oct 76 (Eng) DL/77FEB167

Yoshida S

HUMAN C-PEPTIDE IMMUNOREACTIVITY (CPR) IN BLOOD AND URINE. EVALUATION OF A RADIOIMMUNOASSAY METHOD AND ITS CLINICAL APPLICATIONS. Kuzuya T, Saito T, Yoshida S, Matsuda A *Diabetologia* 12: 511-8, Oct 76 (Eng) DL/77FEB120

Diabetes Literature—Author Index

Yoshikawa K

Yoshikawa K

METABOLISM OF MALTOSE DURING SURGERY IN PATIENTS WITH DIABETES MELLITUS UNDER GENERAL ANESTHESIA. Yoshikawa K, Oda T *Res Exp Med (Berl)* 167: 127-38, 15 May 76 (Eng) DL/77FEB374

ADULT; DIABETES MELLITUS (metabolism); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GASTRECTOMY; GLUCOSE (metabolism); HUMAN; INFUSIONS, PARENTERAL; LACTATES (blood); MALE; MALTOSE (administration & dosage, metabolism); MIDDLE AGE; PHOSPHATES (blood); PYRUVATES (blood); STRESS (metabolism); SURGERY, OPERATIVE; URIC ACID (blood).

Yoshino R

ULTRASTRUCTURAL STUDIES OF HUMAN ACUTE PANCREATITIS. Taura S, Tsunoda T, Yoshino R, HARADA N, Akashi M *Gastroenterol Jpn* 10: 132-40, 1975 (Eng) DL/77FEB127

Young RC

CATECHOLAMINES AND MYOCARDIAL INFARCTION. Young RC, Thomas M, Evans ME, Opie LH *Recent Adv Stud Cardiac Struct Metab* 1: 163-8, 1972 (Eng) *DL/77FEB637

ACUTE DISEASE; ANIMAL EXPERIMENTS (analysis); CATECHOLAMINES (metabolism); CORONARY DISEASE (metabolism); DOGS; ELECTROCARDIOGRAPHY; EPINEPHRINE (blood, pharmacodynamics); HEART (drug effects, physiopathology); HUMAN; MYOCARDIAL INFARCT (blood, metabolism); NOREPINEPHRINE (blood).

Younsí CE

INSULIN RELEASE AND PHOSPHATE ION EFFLUX FROM RAT PANCREATIC ISLETS INDUCED BY L-LEUCINE AND ITS NON-METABOLIZABLE ANALOGUE, 2-AMINO-BICYCLO[2.2.1]HEPTANE-2-CARBOXYLIC ACID. Freinkel N, Younsí CE, Dawson RMC *Proc Natl Acad Sci USA* 73: 3403-7, Oct 76 (Eng) DL/77FEB358

Zak R

CONTROL OF PROTEIN BALANCE IN HYPERTROPHIED CARDIAC MUSCLE. Zak R, Martin AF, Reddy MK, Rabinowitz M *Circ Res* 38: 1145-50, May 76 (Eng) *DL/77FEB537

ANIMAL EXPERIMENTS (analysis); CYTOCHROME C (metabolism); HALF-LIFE; HEART ENLARGEMENT (metabolism); MITOCHONDRIA, MUSCLE (metabolism); MODELS, BIOLOGICAL; MUSCLE PROTEINS (biosynthesis); MYOCARDIUM (metabolism); MYOFIBRILS (metabolism); PEPTIDE HYDROLASES (physiology); PROTEINS (metabolism); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Zehner J

[FATTY ACID PATTERNS AND GLUCOSE TOLERANCE IN HUNTINGTONS CHOREA (AUTHORS TRANSL.)] Schubotz R, Hausmann L, Kalfarnik H, Zehner J, Oepen H *Res Exp Med (Berl)* 167: 203-15, 2 Jul 76 (Ger) DL/77FEB376

Zelinskii BA

[USE OF TRASYLOL IN DIABETIC KETOACIDOSIS] Zelinskii BA, Kogut ES *Vrach Delo* 78-80, Sep 76 (Rus) DL/77FEB429

ACIDOSIS, DIABETIC (drug therapy); ADOLESCENCE; ADULT; CASE REPORT; DRUG EVALUATION; ENGLISH ABSTRACT; FEMALE; HUMAN; KALLIKREIN-TRYPSIN INACTIVATOR (therapeutic use); MALE; MIDDLE AGE.

Zherelova OM

[RECONSTRUCTION OF A SINGLE CELLULAR POTASSIUM-SODIUM CHANNEL IN A LIPID

BILAYER] Aleksandrov AA, Berestovskii GN, Volkova SP, Vostrikov Ila, Zherelova OM *Dokl Akad Nauk SSSR* 227: 723-6, 21 Mar 76 (Rus) *DL/77FEB545

Ziegelhoffer A

INFLUENCE OF ASSISTED CIRCULATION ON CARDIAC METABOLISM. Ziegelhoffer A, Siska K, Holec V, Fedelesova M, Frollo I *Recent Adv Stud Cardiac Struct Metab* 1: 484-91, 1972 (Eng) *DL/77FEB646

ANIMAL EXPERIMENTS (analysis); ASSISTED CIRCULATION; BLOOD PRESSURE; DISEASE MODELS, ANIMAL; DOGS; GLUCOSE (metabolism); HEART ATRIUM (physiology); HEART VENTRICLE (physiology); LACTATES (metabolism); MYOCARDIAL INFARCT (metabolism, therapy); MYOCARDIUM (metabolism); OXYGEN CONSUMPTION; OXYGEN (blood); PYRUVATES (metabolism).

Ziegler M

INSULIN KINETIC, GLUCOSE TOLERANCE, AND LIPID METABOLISM IN GENETICALLY SPONTANEOUS-HYPERTENSIVE RATS. Baumann R, Moritz V, Godicke W, Postnow JW, Ziegler M *Acta Biol Med Ger* 35: k 33-9, 1976 (Eng) DL/77FEB451

Zinder O

REGULATION OF SECRETION FROM THE ADRENAL MEDULLA. EVIDENCE FOR ADENYLATE CYCLASE ACTIVITY IN SECRETORY VESICLE MEMBRANES. Zinder O, Nikoijevic O, Hoffman PG, Pollard HB *J Biol Chem* 241: 2179-81, 10 Apr 76 (Eng) *DL/77FEB569

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADENYL CYCLASE (metabolism); ADRENAL MEDULLA (enzymology, metabolism); ANIMAL EXPERIMENTS (analysis); BINDING SITES; CATTLE; CYTOPLASMIC GRANULES (enzymology, metabolism, ultrastructure); KINETICS; MEMBRANES (enzymology, metabolism, ultrastructure); MICROSCOPY, ELECTRON; PHILIPPINES (physiology); PROTEIN BINDING; RECEPTORS, DRUG.

Zografski A

[SCINTIGRAPHY OF THE PANCREAS IN INSULOMA] Romanova A, Zografski A, Kaneti Ia *Vutr Boles* 14: 123-7, 1975 (Bul) *DL/77FEB682

Zoller H

[DIABETES MELLITUS, HEMOSTATIC FUNCTION, AND DIABETIC ANGIOPATHY] Zoller H, Gutmann W, Fahrer E, Gross W *Med Welt* 27: 1742-3, 10 Sep 76 (Ger) DL/77FEB258

ADOLESCENCE; ADULT; AGED; BLOOD COAGULATION FACTORS; COMPARATIVE STUDY; DIABETES MELLITUS (blood); DIABETIC ANGIOPATHIES; FEMALE; HEMOSTASIS; HUMAN; HYPERLIPIDEMIA (blood); MALE; MIDDLE AGE.

Zollinger RM

TUMORS OF THE ISLETS OF LANGERHANS. Zollinger RM, Mazzaferri EL *Adv Surg* 10: 137-76, 1976 (Eng) [73] DL/77FEB464

ACHLORHYDRIA (blood); ANGIOGRAPHY; CALCIUM (blood); DIAGNOSIS, DIFFERENTIAL; DIARRHEA (blood); GASTRIN (blood); GLUCAGON (blood); HORMONES, ECTOPIC (blood); HUMAN; HYPERINSULINISM (blood); HYPERPARATHYROIDISM, SECONDARY (blood); ISLET CELL TUMOR (diagnosis, surgery); NEOPLASM METASTASIS; NEOPLASTIC ENDOCRINE-LIKE SYNDROMES (diagnosis); PANCREATIC NEOPLASMS (diagnosis, surgery); REVIEW; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; ZOLLINGER-ELLISON SYNDROME (diagnosis, surgery).

Zonneveld BJ

THE EFFECT OF GLUCOSE AND MANGANESE ON ADENOSINE-3,5-MONOPHOSPHATE LEVELS DURING GROWTH AND DIFFERENTIATION OF ASPERGILLUS NIDULANS. Zonneveld BJ *Arch Microbiol* 108: 41-4, 3 May 76 (Eng) *DL/77FEB708

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ASPERGILLUS NIDULANS (drug effects, growth & development, metabolism); GLUCOSE (pharmacodynamics); GLYCOSIDE HYDROLASES (metabolism); MANGANESE (pharmacodynamics); SPORES, FUNGAL (growth & development).

Zsoter T

MYOCARDIAL METABOLISM IN EXPERIMENTAL CARDIOGENIC SHOCK. Cronin RF, Zsoter T, Hollenberg CH *Recent Adv Stud Cardiac Struct Metab* 1: 95-100, 1972 (Eng) *DL/77FEB656

Anonymous

DIET AND THE DIABETIC [EDITORIAL]. Anonymous *Br Med J* 2: 780, 2 Oct 76 (Eng) DL/77FEB26

DIABETES MELLITUS (diet therapy, drug therapy); DIETARY CARBOHYDRATES; INSULIN (therapeutic use).

NEW INSULIN REGIMENS FOR SEVERE DIABETIC KETOSIS. Anonymous *Drug Ther Bull* 14: 77-9, 24 Sep 76 (Eng) DL/77FEB63

ACIDOSIS, DIABETIC (drug therapy); HUMAN; INFUSIONS, PARENTERAL; INJECTIONS, INTRAMUSCULAR; INSULIN (administration & dosage, therapeutic use); KETOSIS, DIABETIC (drug therapy).

DESMOPRESSIN (DDAVP) IN DIABETES INSIPIDUS. Anonymous *JAMA* 236: 2173-4, 8 Oct 76 (Eng) DL/77FEB64

DEAMINO ARGININE VASOPRESSIN (therapeutic use); DIABETES INSIPIDUS (drug therapy); HUMAN; HYPOGLYCEMIC AGENTS (administration & dosage, therapeutic use); VASOPRESSIN (analogs & derivatives).

TREATMENT OF STATUS EPILEPTICUS [LETTER]. Anonymous *JAMA* 236: 2173-4, 8 Nov 76 (Eng) DL/77FEB218

ANTICONSULSANTS (administration & dosage, blood, therapeutic use); HUMAN; HYPOCALCEMIA (complications); HYPOGLYCEMIA (complications); INJECTIONS, INTRAVENOUS; STATUS EPILEPTICUS (drug therapy).

HYPERGLYCAEMIA AND HYPOGLYCAEMIA DURING PREGNANCY [EDITORIAL]. Anonymous *Lancet* 2: 889-90, 23 Oct 76 (Eng) DL/77FEB246

FEMALE; FETAL DEATH (etiology); HUMAN; HYPERGLYCEMIA (complications); HYPOGLYCEMIA (complications); MATERNAL-FETAL EXCHANGE; PLACENTA DISORDERS (etiology); PREGNANCY COMPLICATIONS (blood); PREGNANCY.

[CORRECT CHOICE AND USE OF MATHEMATICAL METHODS IN THE SOLUTION OF MEDICAL PROBLEMS] Anonymous *Orv Hetil* 117: 2581-4, 17 Oct 76 (Hun) DL/77FEB334

DIAGNOSIS, COMPUTER ASSISTED; DIAGNOSTIC ERRORS; DOWNS SYNDROME (diagnosis); GLUCOSE TOLERANCE TEST; HUMAN; HUNGARY; MATHEMATICS; PRENATAL DIAGNOSIS; STATISTICS.

STRUCTURAL STUDIES ON DES-PENTAPEPTIDE (B26-30)-INSULIN. III. STATE OF AGGREGATION, TYROSYL ENVIRONMENT, AND PEPTIDE BACKBONE CONFORMATION IN SOLUTION. Anonymous *Sci Sin* 19: 475-85, Jul-Aug 76 (Eng) DL/77FEB395

BINDING SITES; HYDROGEN-ION CONCENTRATION (physiology); INSULIN; MACROMOLECULAR SYSTEMS; MOLECULAR WEIGHT; PEPTIDE

FRAGMENTS; PROTEIN CONFORMATION;
PROTEIN DENATURATION; SODIUM
DODECYL SULFATE; SPECTRUM ANALYSIS;
TEMPERATURE; TYROSINE; UREA.

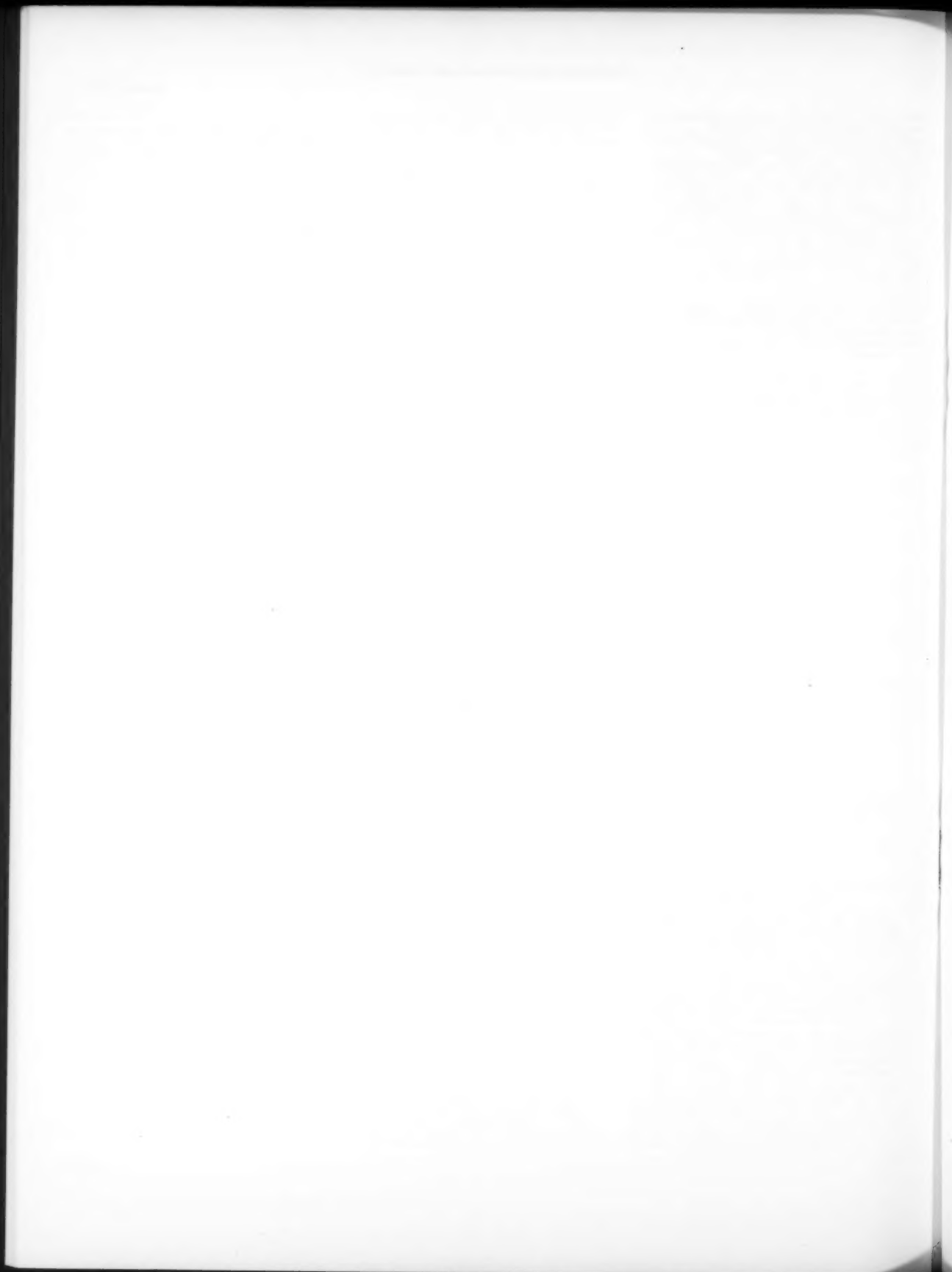
STRUCTURAL STUDIES ON DES-PENTAPEP-
TIDE (B26-30)-INSULIN. IV. A PRELIMINA-
RY INVESTIGATION ON THE HYDROPHO-
BIC REGION BY EMPLOYING A
FLUORESCENCE PROBE, 1-P-TOLUIDINYL-
NAPHTHALENE-8-SULPHONATE.

Anonymous *Sci Sin* 19: 486-96, Jul-Aug 76
(Eng) DL/77FEB396

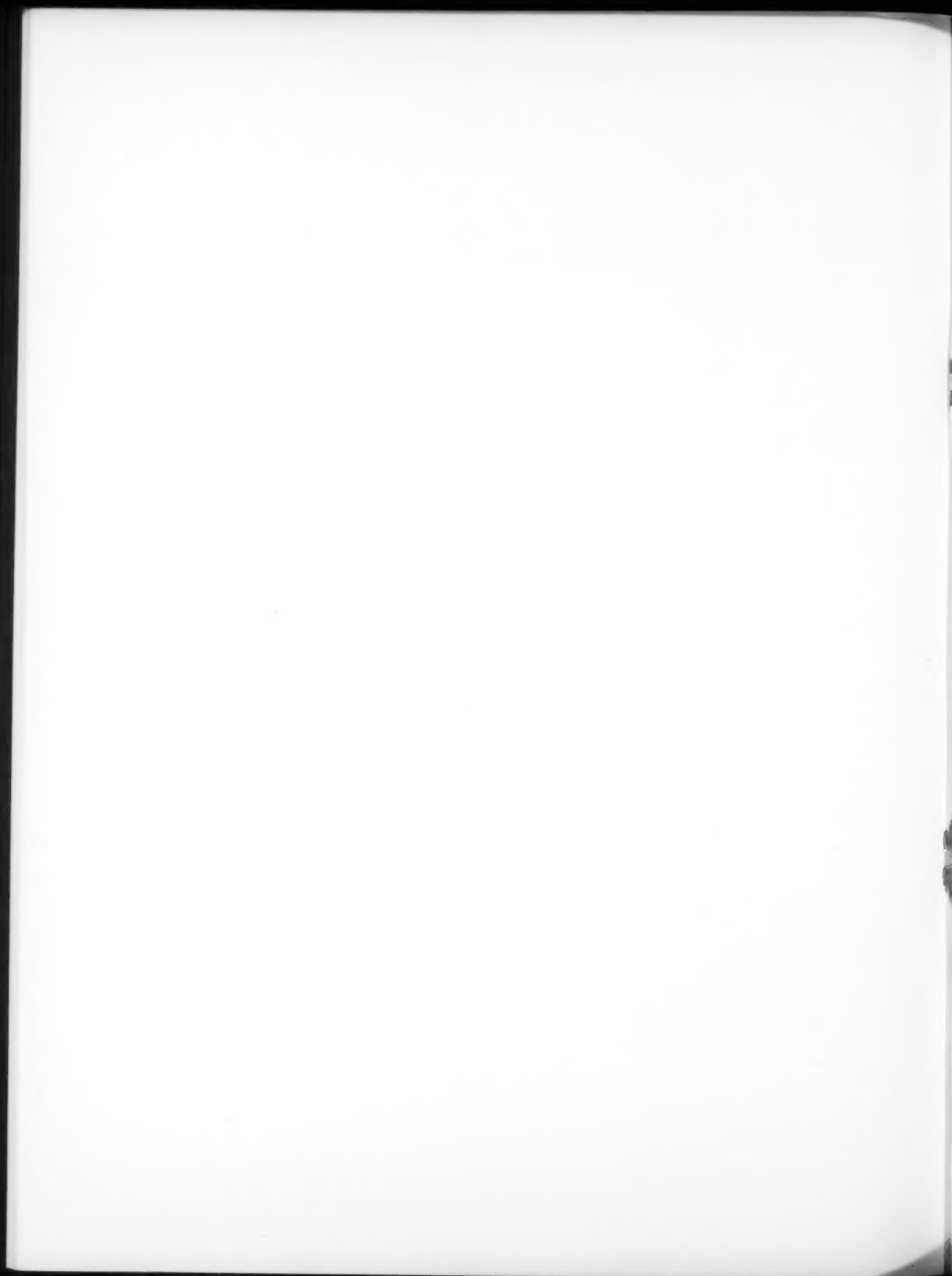
HYDROGEN-ION CONCENTRATION
(physiology); INDICATORS AND REAGENTS;
INSULIN; MURAMIDASE;
NAPHTHALENESULFONATES;
OLIGOPEPTIDES; OVALBUMIN; PEPTIDE
FRAGMENTS; PROTEIN CONFORMATION;
SERUM ALBUMIN, BOVINE;
SPECTROMETRY, FLUORESCENCE;
TOLUIDINES.

STRUCTURAL STUDIES ON DES-PENTAPEP-
TIDE (B26-30)-INSULIN. V. HIGH RESOLU-
TION NMR STUDIES. Anonymous *Sci Sin* 19:
497-504, Jul-Aug 76 (Eng) DL/77FEB397

HYDROGEN-ION CONCENTRATION
(physiology); INSULIN; NUCLEAR MAGNETIC
RESONANCE; PEPTIDE FRAGMENTS;
PROTEIN CONFORMATION.









DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
NATIONAL INSTITUTES OF HEALTH
BETHESDA, MD. 20014

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE \$300

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF H.E.W.

HEW 394



**SPECIAL FOURTH CLASS
BOOK RATE**

CORRESPONDENCE CONCERNING THIS PUBLICATION

PAID SUBSCRIPTIONS: If your address has changed and you wish to continue receiving this publication, please check here, enclose address label from this publication and your new address, and send to:

SUPERINTENDENT OF DOCUMENTS
U.S. GOVERNMENT PRINTING OFFICE
WASHINGTON, D.C. 20402

FREE SUBSCRIPTIONS: If your address has changed and you wish to continue receiving this publication, please check here, enclose address label from this publication and your new address, and send to:

SCIENTIFIC COMMUNICATIONS OFFICE
NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM,
AND DIGESTIVE DISEASES
NATIONAL INSTITUTES OF HEALTH
BUILDING 31, ROOM 9A-03
BETHESDA, MARYLAND 20014

Individual copies should be purchased from the Superintendent of Documents.

